

Location Search on World Wide Web

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Contents

Contents	iii
Figures	v
Tables	vii
Code Listings	ix
1 MariaDB Database Structure	1
2 Perl Module – Piperpal.pm	3
3 Query Interface for World Wide Web – www.piperpal.com	29
3.1 Source: https://www.piperpal.com/index.cgi	29
4 Query Interface API for World Wide Web – api.piperpal.com	41
4.1 Source: https://api.piperpal.com/index.php	41
4.2 Source: https://api.piperpal.com/pull.php	43
5 Location Search on World Wide Web – www.piperpal.com/location .	45
5.1 Source: https://www.piperpal.com/location/index.html	45
5.2 Source: https://www.piperpal.com/location/location.html	45
5.3 Source: https://www.piperpal.com/location/berkeley/index.html	54
5.4 Source: https://www.piperpal.com/location/copenhagen/index.html	56
5.5 Source: https://www.piperpal.com/location/london/index.html	58
5.6 Source: https://www.piperpal.com/location/nyc/index.html	60
5.7 Source: https://www.piperpal.com/location/oslo/index.html	62
5.8 Source: https://www.piperpal.com/location/paris/index.html	64
6 Location API for World Wide Web – api.piperpal.com/location	67
6.1 Source: https://api.piperpal.com/location/json.php	67
6.2 Source: https://api.piperpal.com/location/pull.php	69

6.3	Source: https://api.piperpal.com/location/robot.php	69
6.4	Source: https://api.piperpal.com/location/push.php	70
7	Resolver Interface for World Wide Web – api.piperpal.com/resolver/	73
7.1	Source: https://api.piperpal.com/resolver/index.php	73
8	Market Interface – www.piperpal.com/market/	75
8.1	Source: https://www.piperpal.com/market/index.cgi	75
9	Buying Interface – www.piperpal.com/google.html	83
9.1	Source: https://www.piperpal.com/google.html ..	83
9.2	Source: https://www.piperpal.com/cft/index.php	90
9.3	Source: https://www.piperpal.com/cft/s/index.php	92
10	Python Resolver Scripts	101
10.1	bin/gensource	101
10.2	bin/indexer	101
10.3	bin/piperpal	103
10.4	bin/genpiperpalsource	104
10.5	bin/resolver	105
11	Cron Jobs	109
11.1	0 * * * * /bin/piperpal	109
11.2	0 * * * * python /bin/indexer	109
11.3	0 * * * * /bin/genpiperpalsource >/var/www/html/aamotsoftware/piperpal.xml	109
12	Mobile App	111
12.1	Android – https://www.github.com/piperpal/android111	
12.2	iOS – https://www.github.com/piperpal/ios	111
13	Web App	113
13.1	World Wide Web – https://www.geopher.com/	113

Figures

Tables

Code Listings

home/4/p/piperpal/piperpal.sql	1
home/4/p/piperpal/Piperpal.pm	3
home/4/p/piperpal/www/index.cgi	29
home/4/p/piperpal/www/api/index.php	41
home/4/p/piperpal/www/api/pull.php	43
home/4/p/piperpal/www/location/location.html	45
home/4/p/piperpal/www/location/berkeley/index.html	54
home/4/p/piperpal/www/location/copenhagen/index.html	56
home/4/p/piperpal/www/location/london/index.html	58
home/4/p/piperpal/www/location/nyc/index.html	60
home/4/p/piperpal/www/location/oslo/index.html	62
home/4/p/piperpal/www/location/paris/index.html	64
home/4/p/piperpal/www/api/location/json.php	67
home/4/p/piperpal/www/api/location/pull.php	69
home/4/p/piperpal/www/api/location/robot.php	69
home/4/p/piperpal/www/api/location/push.php	70
home/4/p/piperpal/www/api/resolver/index.php	73
home/4/p/piperpal/www/market/index.cgi	75
home/4/p/piperpal/www/google.html	83
home/4/p/piperpal/www/cft/index.php	90
home/4/p/piperpal/www/cft/s/index.php	92
home/4/p/piperpal/gensource	101
indexer	101
piperpal	103
genpiperpalsource	104
home/4/p/piperpal/resolver	105

Chapter 1

MariaDB Database Structure

A MariaDB (<http://www.mariadb.org/>) database structure for our implementation of “Location Search on World Wide Web” is given as SQL instructions here:

```
1 CREATE TABLE piperpal (  
2     id MEDIUMINT(8) UNSIGNED NOT NULL AUTO_INCREMENT,  
3     name VARCHAR(100) NOT NULL DEFAULT '',  
4     service VARCHAR(1024) NOT NULL,  
5     location VARCHAR(1024) NOT NULL,  
6     modified TIMESTAMP NOT NULL DEFAULT CURRENT_TIMESTAMP ON  
       UPDATE CURRENT_TIMESTAMP,  
7     created TIMESTAMP NULL DEFAULT NULL,  
8     glat DECIMAL(10, 8) NOT NULL,  
9     glon DECIMAL(11, 8) NOT NULL,  
10    paid MEDIUMINT(16) UNSIGNED NOT NULL,  
11    token VARCHAR(32) NOT NULL,  
12    type VARCHAR(32) NOT NULL,  
13    email VARCHAR(256) NOT NULL,  
14    PRIMARY KEY (id));
```


Chapter 2

Perl Module – Piperpal.pm

The software programming module for our implementation of “Location Search on World Wide Web” is given as dynamically loadable Perl5 (version 5.24.1) Module here:

```
1 package Piperpal;
2
3 # Copyright (C) 2015 Ole Aamot
4 #
5 # Author: oka@oka.no
6 #
7 # Date: 2015-08-22T16:45:00+01
8 #
9 # Field: Incremental, prime number, sql, perl
10 #
11 # URL: https://www.piperpal.com/Piperpal.pm
12
13 #####
14 # LOAD MODULES
15 #####
16 use strict;
17
18 use lib '/home/4/p/piperpal/share/perl/5.10.1/';
19 use warnings FATAL => 'all';
20
21 use 5.008001;
22 use Encode qw();
23
24 use HTTP::Request::Common;
25 use DBI;
26 use CGI;
27 use LWP;
28 use WWW::Mechanize;
29 use JSON -support_by_pp;
30 use HTML::Entities;
```

```

31 use MediaWiki::API;
32
33 use Math::Round;
34
35 my @Piperpal;
36
37 BEGIN {
38     @Piperpal = qw{input_location input_publisher lns_item
39         lns_market_item is_valid is_paid initialize
40         update_location select_location}
41 }
42
43 sub get_locations {
44     my $c = CGI->new;
45     my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
46         piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxx",
47         {'RaiseError' => 1});
48     $dbh->do ("SELECT_DISTINCT_name, glat, glon FROM_yaylocation_
49         WHERE_paid_>'0'_ORDER_by_name;");
50     my $sth = $dbh->prepare ("SELECT_DISTINCT_name, glat, glon_
51         FROM_yaylocation_ORDER_by_name;");
52     $sth->execute();
53     while (my $ref = $sth->fetchrow_hashref()) {
54         if ('GET' eq $c->request_method && $c->param('
55             locationsservicename') && $c->param('location')) {
56             if ($ref->{'name'} == $c->param('locationsservicename'))
57             {
58                 print "<option_selected_value=" . $ref->{'glat'} . ", "
59                     . $ref->{'glon'} . ">" . $ref->{'name'} . "</option
60                     >";
61             } else {
62                 print "<option_value=" . $ref->{'glat'} . ", " . $ref->{
63                     'glon'} . ">" . $ref->{'name'} . "</option>";
64             }
65         }
66     }
67     $sth->finish();
68     $dbh->disconnect();
69     return;
70 }
71
72 sub get_services {
73     my $c = CGI->new;
74     my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
75         piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxx",
76         {'RaiseError' => 1});
77     $dbh->do ("SELECT_DISTINCT_service, name, glat, glon FROM_
78         piperpal_ORDER_by_service;");
79     my $sth = $dbh->prepare ("SELECT_DISTINCT_service, name, glat
80         , glon FROM_piperpal_WHERE_ORDER_by_service;");
81     $sth->execute();
82     if ('GET' eq $c->request_method && $c->param('service')) {
83         while (my $ref = $sth->fetchrow_hashref()) {

```

```

70         if ($ref->{'service'} == $c->param('service')) {
71             print "<option_selected_value=" . $ref->{'glat'} . ", "
                . $ref->{'glon'} . ">" . $ref->{'service'} . "</
                option>";
72         } else {
73             print "<option_value=" . $ref->{'glat'} . ", " . $ref->{
                'glon'} . ">" . $ref->{'service'} . "</option>";
74         }
75     }
76 }
77 }
78 $sth->finish();
79 $dbh->disconnect();
80 return;
81 }
82 sub input_searchers {
83     my @radiuses =
84         (1,2,5,10,25,50,100,250,500,750,1000,1250,1500,2000,2500,3000,4000,5000,6000);
85     my $r;
86     my $sth;
87     my $dbh;
88     my $c = CGI->new;
89     my $servicep;
90     print "<form_onsubmit='updateGeo()' _method='GET' _action='
        https://www.piperpal.com/#results' _id='formID'>";
91     print '<table>';
92     if ('GET' eq $c->request_method && $c->param('query')) {
93         print '<tr><td><center><input_size="30" _type="text" _
            autofocus_class="input_form_custom" _id="query" _name="
            query" _placeholder="Where do you think&quest;" _value="
            . HTML::Entities::encode($c->param('query')) . "' _/></
            center></td></tr>';
94         # $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
            piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxx", {'
            RaiseError' => 1});
95         # $dbh->{'mysql_enable_utf8'} = 1;
96         # if ($c->param('query')) {
97         #     $sth = $dbh->prepare ("SELECT _name,location,service_
            FROM _piperpal _WHERE_ (name_LIKE_'%" . $c->param('query') . "
            %'_OR_service_LIKE_'%" . $c->param('query') . "%') _ORDER_by
            _modified_DESC;");
98         #     $sth->
99         #     while (my $ref = $sth->fetchrow_hashref()) {
100            #         print '<tr><td></td><td>';
101            #         lns_item($ref->{'name'}, $ref->{'location'}, $ref->{
            'service'}, $ref->{'glat'}, $ref->{'glon'}, $ref->{'
            modified'}, $ref->{'created'}, $ref->{'distance_in_km'});
102            #         print '</td></tr>';
103            #     }
104            # }
105            # $sth->finish();
106            # $ref->{'name'}, $ref->{'location'}, $ref->{'service'}, $ref
            ->{'glat'}, $ref->{'glon'}, $ref->{'modified'}, $ref->{'

```

```

created'}, $ref->{'distance_in_km' }
105 } else {
106 print '<tr><td><center><input_size="30" type="text" class="
    input_form_custom" id="query" name="query" placeholder
    ="Where_do_you_think&quest;" /></center></td>';
107 }
108 print '<td><select_size="8" name="radius" id="radius" class
    ="input_form_custom">';
109 foreach $r (@radiuses) {
110 if ($c->param('radius')) {
111     if ($c->param('radius')== $r) {
112         print "<option_value=' " . $r . "' _selected>" . $r . " _
            km</option>";
113     } else {
114         print "<option_value=' " . $r . "'>" . $r . " _km</option
            >";
115     }
116 } else {
117     if ($r == 5) {
118         print "<option_value=' " . $r . "' _selected>" . $r . " _
            km</option>";
119     } else {
120         print "<option_value=' " . $r . "'>" . $r . " _km</option
            >";
121     }
122 }
123
124 }
125 print '</select></td>';
126 print '<td>&nbsp;</td><td><input_type="submit" id="search" _
    name="search" _value="Go" /></td></tr></table>';
127 print "<span_id='status'><input_type='hidden' _name='glat' _
    /><input_type='hidden' _name='glon' /></span>\n";
128 print "</form>";
129 print "<h3>Be_discovered_by_the_world_around_you</h3>";
130 print "<p><a_href='https://www.piperpal.com/google.html'>
    Submit_entries_in_Piperpal\'s_Location-aware_Search_
    Engine</a></p>";
131 # &Piperpal::input_publisher();
132 # &Piperpal::insert_publisher();
133 print "<br>";
134 print '<p>Mobile_Browsers: <a_href="http://www.brave.com/">
    Brave</a>, <a_href="https://www.mozilla.org/firefox">
    Firefox</a>, <a_href="http://www.vivaldi.com/">Vivaldi
    </a></p>;';
135 print '<p><a_href="https://www.piperpal.com/?query=&radius
    =5&search=Go&service=Books&glat=55.6828273&glon
    =12.6082921#results">Copenhagen</a>, <a_href="https://
    www.piperpal.com/?query=&radius=5&search=Go&service=
    Books&glat=37.419559&glon=-122.0897767#results">Google_
    Visitor_Center</a>, <a_href="https://www.piperpal.com/?
    query=&radius=5&search=Go&service=Books&glat
    =51.5073219&glon=-0.1276474#results">London</a>, <a_
    href="https://www.piperpal.com/?query=&radius=5&search=

```



```

Go&service=Books&glat=40.6399278&glon=-73.7786925#
results">New_York</a>,<a_href="https://www.piperpal.
com/?query=&radius=5&search=Go&service=Books&glat
=48.8566969&glon=2.3514616#results">Paris</a>,<a_href
="https://www.piperpal.com/?query=&radius=5&search=Go&
service=Books&glat=59.9137238&glon=10.7372622#results">
Oslo</a></p>;
136 print '<p>Maps:<a_href="http://maps.google.com/">Google_
Maps</a>,<a_href="http://www.openstreetmap.org/">Open_
Street_Map</a>,<a_href="https://www.bing.com/maps/">
Bing_Maps</a>,<a_href="https://maps.apple.com/">Apple_
Maps</a></p>;
137 }
138
139 sub input_publisher {
140
141     my $c = CGI->new;
142     print "<tr><td_width=' 60'>&nbsp;</td><td><form_onsubmit='
        updateGeo()'_id='welcomeForm'_name='welcomeForm'_action
        ='https://www.piperpal.com/checkout.php'_method='POST'>
        ";
143     print '<span_class="input_form">';
144     print '<img_src="img/Name_Icon.png"_title="Name_of_Location
        -aware_Content_Tag"_class="icon_form"_height="70"_width
        ="70">';
145     if ($c->param('query')) {
146     print '<input_type="text"_id="name"_class="
        input_form_custom"_name="name"_placeholder="Name"_value
        =' . HTML::Entities::encode($c->param('query')) . '_/>'
        ;
147     } else {
148     print '<input_type="text"_id="name"_class="
        input_form_custom"_name="name"_placeholder="Name"_/>';
149     }
150     print '</span>';
151     print '</td></tr><tr><td_width=60>&nbsp;</td><td>';
152     print '<span_class="input_form">';
153     print '<img_src="img/Location_Icon.png"_title="URL_of_
        Location-aware_Content_Tag"_class="icon_form"_height
        ="70"_width="70">';
154     print '<input_type="text"_id="location"_class="
        input_form_custom"_name="location"_placeholder="https
        ://">';
155     print '</span>';
156     print '</td></tr><tr><td_width=60>&nbsp;</td><td>';
157     print '<span_class="input_form">';
158     print '<img_src="img/Service_Icon.png"_title="Service_type_
        of_Location-aware_Content_Tag"_class="icon_form"_height
        ="70"_width="70">';
159     print '</td></tr><tr><td_width=60>';
160     print '<input_type="text"_id="service"_name="service"_
        placeholder="Service">';
161     # print '<h3>News</h3>';
162     #print '<p><b>2021</b></p>';

```

```

163 #print ' <p><i><a href="https://www.aamotsoftware.com/">
      Aamot_Software</a>\' s_second_functional_example_of_HTML
      _with_location_tagging_and_fetching_was_stored_on<a
      href="https://piperpal.com/google.html">https://
      piperpal.com/google.html</a></i></p>' ;
164 #print ' <p><b>2020</b></p>' ;
165 #print ' <p><i><a href="https://www.aamotsoftware.com/">
      Aamot_Software</a>\' s_Indexer_for_Piperpal_written_in
      the_programming_language_Python_can_now_recursively
      index_location_tags_as_specified_on<a href="https://
      www.aamotsoftware.com/location.html">https://www.
      aamotsoftware.com/location.html</a>_from_web_pages_that
      _are_listed_for_such_indexing_on<a href="https://www.
      aamotsoftware.com/location-source.html">https://www.
      aamotsoftware.com/location-source.html</a></i></p>' ;
166 #print ' <p><b>2015</b></p>' ;
167 #print ' <p><i><a href="https://www.aamotsoftware.com/">
      Aamot_Software</a>\' s_first_practical_example_of
      location_tagging_with_Piperpal_was_stored_on<a href="
      https://piperpal.com/Google">https://piperpal.com/
      Google</a>_at_a_lunch_table_with<a href="http://www.
      norvig.com/">Peter_Norvig</a>_in_the_Google_Visitor
      Center_in_Mountain_View,_California_in_2015_where_he
      mentioned_crowd_sourcing_of_location_tags_with_a_neural
      _network_filter_as_future_work.</i></p>' ;
168 #print ' <p><i><a href="https://www.aamotsoftware.com/">
      Aamot_Software</a>\' s_presentation_for<a href="http://
      research.google.com/">Google_Research</a>:_<a href="
      https://www.piperpal.com/doc/3.0/Piperpal-Location-
      aware-ContentTag.pdf">Location-aware_Content_Tag:&lt;
      location&gt; , &location_markup</a></i></p>' ;
169
170 print ' <span class="row row-condensed space-top-2 space-2">
171     <span class="col-sm-6">
172         <label for="simple-search-tourin" class="screen-reader-
173             only">
174             Tour_in
175         </label>
176         <input
177             id="simple-search-tourin"
178             type="text"
179             name="notBefore"
180             class="input-large tourin js-search-tourin"
181             placeholder="Not_Before">
182         </span>
183         <span class="col-sm-6">
184             <label for="simple-search-tourout" class="screen-reader
185                 -only">
186                 Tour_out
187             </label>
188             <input
189                 id="simple-search-tourout "
190                 type="text"
191                 name="notAfter"

```

```

190 _____class="input-large_tourout_js-search-tourout"
191 _____placeholder="Not_After">
192 _____</span>
193 _____</span>' ;
194 # print '</span>';
195 print "<span_id='status_publisher'>\n";
196 # print "<span_class='input_form_custom'>";
197 print "<input_id='glat' _class='input_form_custom' _type='
      text' _name='glat' _placeholder='Latitude' _size=35_/>\n";
198 # print "<span_class='input_form_custom'>
199 print "<input_id='glon' _class='input_form_custom' _type='
      text' _name='glon' _placeholder='Longitude' _size=35_/>\n"
      ;
200 print "</span>\n";
201 print "<input_type='hidden' _name='c' _value='INSERT' _/>\n";
202 print '<span_class="send_form">';
203 print "<script_src='https://checkout.stripe.com/checkout.js
      ' _class='stripe-button' _data-key='
      pk_live_9UbKhDJJWaAFnMjYQTBA8I9i00H8Z5eMmL' _data-amount
      ='41' _data-name='Aamot_Software' _data-description='
      Piperpal_Entry_($0.41_USD)' _data-image='/img/
      Location_Icon.png'></script>";
204 # print '<input_class="custom_send_button" _type="submit" _
      value="PAY_WITH_CARD">';
205 print '</span>';
206 print '</form>';
207 print '</td></tr>';
208
209 # print "<input_type='hidden' _name='c' _value='INSERT' _/>\n";
210 # print "<table_cellpadding=5><tr>";
211 # print "<td><a_href='https://www.piperpal.com/Piperpal
      ' _><img_border=0_width=16_height=16_src='js-icon.png' _
      /></td>";
212 # print "<td><input_size=16_type=text_name=name_class=
      biginput_id=name_placeholder='Name' _/></td>\n";
213 # print "<td><input_size=20_type=text_name=location_class=
      biginput_id=location_placeholder='https://' _/></td>\n";
214 #print "<td><input_size=16_type=text_name=service_class=
      biginput_id=service_placeholder='Service' _/></td>\n";
215 #print "<span_id='status'><input_type='hidden' _name='glat' _
      placeholder='Latitude' _size=16_/><input_type='hidden' _
      name='glon' _placeholder='Longitude' _size=16_/></span>\n
      ";
216 # print "<td><form_action='https://www.piperpal.com/
      checkout.php' _method='POST'><script_src='httpss://
      checkout.stripe.com/checkout.js' _class='stripe-button' _
      data-key='pk_live_odDlc1NMTUJdPN4WC2VTLvvu' _data-amount
      ='10' _data-name='Aamot_Software' _data-description='1_
      Hour_Programming/Support_(10_cent)' _data-image='/128
      x128.png'></script></td>";
217 # print "</tr>\n";
218 # print "</form>\n";
219
220

```

```

221 }
222
223 sub input_advertiser {
224
225     my $c = CGI->new;
226     print "<input_type='hidden' _name='c' _value='INSERT' _/>\n";
227     print "<table_cellpadding=5><tr>";
228     print "<td>Word</td><td><input_type=text_name=name_class=
        biginput_id=name_placeholder='Name' ></textarea></td>\n"
        ;
229     print "<td><input_size=20_type=text_name=location_class=
        biginput_id=location_placeholder='https://' _/></td>\n";
230     print "<td><input_size=16_type=text_name=service_class=
        biginput_id=service_placeholder='Service' _/></td>\n";
231 #     print '<td><span_class="row_row-condensed_space-top-2_
space-2">
232 #         <span class="col-sm-6">
233 #             <label for="simple-search-tourin" class="screen-reader
-only">
234 #                 Tour in
235 #             </label>
236 #             <input
237 #                 id="simple-search-tourin"
238 #                 type="text"
239 #                 name="notBefore"
240 #                 class="input-large_tourin_js-search-tourin"
241 #                 placeholder="Not_Before">
242 #             </span>
243 #             <span class="col-sm-6">
244 #                 <label for="simple-search-tourout" class="screen-
reader-only">
245 #                     Tour out
246 #                 </label>
247 #                 <input
248 #                     id="simple-search-tourout"
249 #                     type="text"
250 #                     name="notAfter"
251 #                     class="input-large_tourout_js-search-tourout"
252 #                     placeholder="Not_After">
253 #                 </span>
254 #             </span>';
255     print "<span_id='status'><input_type='hidden' _name='glat' _
placeholder='Latitude' _size=16_><input_type='hidden' _
name='glon' _placeholder='Longitude' _size=16_></span>\n
";
256     print "<td><form_action='https://www.piperpal.com/checkout.
php' _method='POST'><script_src='https://checkout.stripe
.com/checkout.js' _class='stripe-button' _data-key='
pk_test_EeI0KtAXtAyWlajpKukLZPm00ChuDtUP8' _data-amount
='4500' _data-name='Aamot_Software' _data-description='1_
Hour_Programming/Support_(45_USD)' _data-image='/img/
Location_Icon.png'></script></td>";
257     print "</tr>\n";
258     print "</form>\n";

```



```

    _Tag" _height="70" _width="70"></a>';
298 print '</td><td><input _type="text" _id="' . $name . '
    _location' . '" _name="location" _placeholder="https://"
    value="' . $location . '">';
299 # print '</span>';
300 # print '<br>';
301 # print '<span _class="service_form_input_form">';
302 print "</td></tr><tr><td _width=' 60'>";
303 print '<a _href="/service/' . $service . '"></a></td><td>';
304 print '<input _type="text" _id="' . $name . '_service' . '"
    name="service" _placeholder="Service" _value="' .
    $service . '">';
305 print "</td></tr><tr><td _width=' 60'>";
306 # print '<span _class="row_row-condensed_space-top-2_space
-2">
307 # <span class="col-sm-6">
308 # <label for="simple-search-tourin" class="screen-reader
-only">
309 # Tour in
310 # </label>
311 # <input
312 # id="datepicker"
313 # type="text"
314 # name="notBefore"
315 # class="input-large_tourin_js-search-tourin"
316 # placeholder="Not _value="' . $created . '">
317 # </span>
318 # <span class="col-sm-6">
319 # <label for="simple-search-tourout" class="screen-
reader-only">
320 # Tour out
321 # </label>
322 # <input
323 # id="datepicker"
324 # type="text"
325 # name="notAfter"
326 # class="input-large_tourout_js-search-tourout"
327 # placeholder="Not _value="' . $modified . '">
328 # </span>
329 # </span>';
330 # print '</span>';
331 print "</td></tr><tr><td _width=' 60'>";
332 print "<span _id=' status_lns'>\n";
333 # print "<span _class=' service_form_input_form'>";
334 print "<img _src='/img/Latitude_Icon.png' _alt=' Icon2' _height
=' 70' _width=' 70'></td><td><input _id=' " . $name . " _glat
' _type=' text' _name=' glat' _placeholder=' Latitude' _size
=35 _value=' " . $glat . "' _/>\n";
335 print "</td></tr><tr><td _width=' 60'>";
336
337 #</span>\n";
338

```

```

339 # print "<span_class='input_form_custom'><img_src='img/
Latitude_Icon.png'_alt='Icon2'_class='icon_form'_height
='70'_width='70'><input_id=' " . $name . "_glat'_class='
input_form_custom'_type='text'_name='glat'_placeholder='
Latitude'_size=32_value=' " . $glat . "'_ /></span>\n";
340
341 # print "<span_class='service_form_input_form'>
342 print "</td></tr><tr><td width='60'>";
343 print "<img src='/img/Longitude_Icon.png' alt='Icon2'
height='70' width='70'></td><td><input id=' " . $name . "_
_glon' type='text' name='glon' placeholder='Longitude' size
=35 value=' " . $glon . "' />\n";
344 #</span>\n";
345
346 # print "<span_class='input_form_custom'><img_src='img/
Longitude_Icon.png'_alt='Icon2'_class='icon_form'_height
='70'_width='70'><input_id=' " . $name . "_glon'_class='
input_form_custom'_type='text'_name='glon'_placeholder='
Longitude'_size=32_value=' " . $glon . "'_ /></span>\n";
347
348 print "</td></tr><tr><td width='60'>";
349 print "<input_type='hidden'_name='c'_value='INSERT'_ />\n";
350 # print '<span_class="send_form">';
351 # print "<script_src='https://checkout.stripe.com/checkout.
js'_class='stripe-button'_data-key='
pk_live_dg4Qj9EUNdnBicNW40nNoEJh'_data-amount='100'_data-
name='Aamot_Software'_data-description='Piperpal_Entry_(1_
dollar)'_data-image='/img/Location_Icon.png'></script>";
352 # print '<input_class="custom_send_button" type="submit"
value="PAY_WITH_CARD">';
353 # print '</span>';
354 print "</td></tr>";
355 print "</table>";
356 # print "<form_action='http://www.piperpal.com/checkout.php
?name=" . $name . "&service=" . $service . "'_method='
POST'>";
357 # print '<span_class="name_form_input_form">';
358 # print '<img_src="img/icon1.png" alt="Icon1" style="margin
-right:27px" class="icon_form" height="70" width="70">'
;
359 # print '<input_type="text" value=" " . $name . "'_id=" " .
$name . "'_class="input_form_custom" name="name"
placeholder=" " . $name . "'>';
360 # print '</span>';
361 # print '<br>';
362 # print '<span_class="website_form_input_form">';
363 # print '<img_src="img/icon2.png" alt="Icon2" class="
icon_form" height="70" width="70">';
364 # print '<input_type="text" value=" " . $location . "'_id="
location" class="input_form_custom" name="location"
placeholder=" " . $location . "'>';
365 # print '</span>';
366 # print '<br>';
367 # print '<span_class="service_form_input_form">';

```



```

403     print "<location_name=' " . $name . "'_href=' " . $location .
        "'_lat=' " . $glat . "'_lon=' " . $glon . "'><a_href=' "
        . $location . "'><h2>" . $name . "</h2></a></location>"
        ;
404     print "<h3>" . nearest(0.1, $distance) . "_km_away</h3>";
405     print "<table>";
406     print "<tr><td_width=' 60'>";
407     print '<a_href="/" . $name . "'><img_src="/img/Name_Icon.
        png'_title="Name_of_Location-aware_Content_Tag'_height
        ="70"_width="70"></a>';
408     print '</td><td><input_type="text"_id="' . $name . "'_name="
        name'_placeholder="Name'_value="' . $name . "'></td></
        tr>';
409 #     print '</span>';
410 #     print '<br>';
411 #     print '<span_class="website_form_input_form">';
412     print "<tr><td_width=' 60'>";
413     print '<a_href="' . $location . "'><img_src="/img/
        Location_Icon.png'_title="URL_of_Location-aware_Content
        _Tag'_height="70"_width="70"></a>';
414     print '</td><td><input_type="text"_id="' . $name . '
        _location' . "'_name="location'_placeholder="https://"_
        value="' . $location . "'>';
415 #     print '</span>';
416 #     print '<br>';
417 #     print '<span_class="service_form_input_form">';
418     print "</td></tr><tr><td_width=' 60'>";
419     print '<a_href="/service/' . $service . "'><img_src="/img/
        Service_Icon.png'_title="Service_type_of_Location-aware
        _Content_Tag'_height="70"_width="70"></a></td><td>';
420     print '<input_type="text"_id="' . $name . '_service' . "'_
        name="service'_placeholder="Service'_value="' .
        $service . "'>';
421     print '<input_type="hidden"_id="paid_' . $name . '_service'
        . "'_name="paid'_placeholder="paid'_value="42">';
422     print "</td></tr><tr><td_width=' 60'></td><td>";
423 #     print '<span_class="row_row-condensed_space-top-2_space
        -2">
424 #         <span class="col-sm-6">
425 #             <label for="simple-search-tourin" class="screen-reader
        -only">
426 #                 Tour in
427 #             </label>
428 #             <input
429 #                 id="datepicker"
430 #                 type="text"
431 #                 name="notBefore"
432 #                 class="input-large_tourin_js-search-tourin"
433 #                 placeholder="Not_Before" value="' . $created . "'>
434 #             </span>
435 #             <span class="col-sm-6">
436 #                 <label for="simple-search-tourout" class="screen-
        reader-only">
437 #                     Tour out

```

```

438 #         </label>
439 #         <input
440 #             id="datepicker"
441 #             type="text"
442 #             name="notAfter"
443 #             class="input-large_tourout_js-search-tourout"
444 #             placeholder="Not_After" value="$_.$modified_." ">
445 #         </span>
446 #     </span>';
447 #     print '</span>';
448     print "</td></tr><tr><td_width=' 60'>";
449     print "<span_id=' status_lns'>\n";
450 #     print "<span_class=' service_form_input_form'>";
451     print "<img_src='/img/Latitude_Icon.png'_alt=' Icon2'_height
         =' 70'_width=' 70'></td><td><input_id=' " . $name . "_glat
         '_type=' text'_name=' glat'_placeholder=' Latitude'_size
         =35_value=' " . $glat . "'_>\n";
452 #</span>\n";
453
454 #     print "<span_class=' input_form_custom'><img_src=' img/
         Latitude_Icon.png'_alt=' Icon2'_class=' icon_form'_height
         =' 70'_width=' 70'><input_id=' " . $name . "_glat'_class='
         input_form_custom'_type=' text'_name=' glat'_placeholder='
         Latitude'_size=32_value=' " . $glat . "'_></span>\n";
455
456     #     print "<span_class=' service_form_input_form'>
457     print "</td></tr><tr><td width=' 60'>";
458     print "<img src='/img/Longitude_Icon.png' alt=' Icon2'
         height=' 70' width=' 70'></td><td><input id='$_.$name_."
         "_glon' type=' text' name=' glon' placeholder=' Longitude' size
         =35 value=' " . $_.$glon_." ' />\n";
459 #</span>\n";
460
461 #     print "<span_class=' input_form_custom'><img_src=' img/
         Longitude_Icon.png'_alt=' Icon2'_class=' icon_form'_height
         =' 70'_width=' 70'><input_id=' " . $name . "_glon'_class='
         input_form_custom'_type=' text'_name=' glon'_placeholder='
         Longitude'_size=32_value=' " . $glon . "'_></span>\n";
462     print "</td></tr><tr><td_width=' 60'>";
463     print "<img_src='/img/Email_Icon.png'_alt=' Icon2'_height
         =' 70'_width=' 70'></td><td>";
464     print "<input_id=' " . $name . "_expire'_type=' text'_name='
         expire'_placeholder=' '_size=35_value=' " . $modified . "'
         '_>\n";
465     print "</td></tr><tr><td_width=' 60'>";
466     print "<img_src='/img/Phone_Icon.png'_alt=' Icon2'_height
         =' 70'_width=' 70'></td><td>";
467     print "<input_id=' " . $name . "_expire'_type=' text'_name='
         expire'_placeholder=' '_size=35_value=' " . $created . "'
         '_>\n";
468     print "</td></tr><tr><td_width=' 60'>";
468     print "<input_type=' hidden'_name=' c'_value=' INSERT'_>\n";
469 #     print '<span_class=" send_form">';

```

```

470 # print "<script_src='https://checkout.stripe.com/checkout.
    js'_class='stripe-button'_data-key='
    pk_live_dg4Qj9EUNdnBicNW40nNoEJh'_data-amount='100'_data-
    name='Aamot_Software'_data-description='Piperpal_Entry_(1_
    dollar)'_data-image='/img/Location_Icon.png'></script>";
471 # print '<input_class="custom_send_button"_type="submit"_
    value="PAY_WITH_CARD">';
472 # print '</span>';
473 print "</td></tr>";
474 print "</table>";
475 # print "<form_action='http://www.piperpal.com/checkout.php
    ?name=" . $name . "&service=" . $service . "'_method='
    POST'>";
476 # print '<span_class="name_form_input_form">';
477 # print '<img_src="img/icon1.png"_alt="Icon1"_style="margin
    -right:27px"_class="icon_form"_height="70"_width="70">'
    ;
478 # print '<input_type="text"_value="" . $name . "'_id="" .
    $name . "'_class="input_form_custom"_name="name"_
    placeholder="" . $name . "'>';
479 # print '</span>';
480 # print '<br>';
481 # print '<span_class="website_form_input_form">';
482 # print '<img_src="img/icon2.png"_alt="Icon2"_class="
    icon_form"_height="70"_width="70">';
483 # print '<input_type="text"_value="" . $location . "'_id=""
    location"_class="input_form_custom"_name="location"_
    placeholder="" . $location . "'>';
484 # print '</span>';
485 # print '<br>';
486 # print '<span_class="service_form_input_form">';
487 # print '<img_src="img/icon3.png"_alt="Icon3"_class="
    icon_form"_height="70"_width="70">';
488 # print '<input_type="text"_value="" . $service . "'_id=""
    service"_class="input_form_custom"_name="service"_
    placeholder="" . $service . "'>';
489 # print '</span>';
490 # print "<span_id='status_lns'>\n";
491 # print "<span_class='service_form_input_form'>";
492 # print '<img_src="img/icon2.png"_alt="Icon2"_class="
    icon_form"_height="70"_width="70">';
493 # print "<input_id='glat'_value="" . $glat . "'_class='
    input_form_custom'_type='text'_name='glat'_placeholder
    =' " . $glat . "'_size=16_/></span>\n";
494 # print "<span_class='service_form_input_form'>";
495 # print '<img_src="img/icon2.png"_alt="Icon2"_class="
    icon_form"_height="70"_width="70">';
496 # print "<input_id='glon'_value="" . $glon . "'_class='
    input_form_custom'_type='text'_name='glon'_placeholder
    =' " . $glon . "'_size=16_/></span>\n";
497 # print "</span>\n";
498 # print "<input_type='hidden'_name='c'_value='INSERT'_/>\n"
    ;
499 # print '<span_class="send_form_item">';

```

```

500 # print "<script_src='https://checkout.stripe.com/checkout.
      js'_class='stripe-button'_data-key='
      pk_live_odDlc1NMTUJdPN4WC2VTLvvu'_data-amount='500'_
      data-name='Aamot_Software'_data-description=' " .
      $service . "_ (5_USD) '_data-image='/img/icon2.png'></
      script>";
501 # print '</span>';
502 # print '</form>';
503
504 }
505
506 sub is_valid {
507     my $location = shift;
508     my $ua = LWP::UserAgent->new;
509     my $result = $ua->request(GET $location);
510     print "is_valid.\n";
511     print_r($result);
512     return 0 if ($result==0);
513     return 1 if (($result==1)||($result==2));
514 }
515
516 sub is_paid {
517     my $c = CGI->new;
518     my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
      piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxx",
      {'RaiseError' => 1});
519     if ('GET' eq $c->request_method && $c->param('paid') eq "1"
      && $c->param('query') && $c->param('location')) {
520     $dbh->do ("UPDATE_piperpal_SET_paid=_paid+_1,_modified=_
      NOW()_WHERE_name_=' " . HTML::Entities::encode($c->
      param('query')) . "'_and_location_=' " . $c->param('
      location') . "';");
521     }
522     return;
523 }
524
525 sub delete_location {
526     my $c = CGI->new;
527     my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
      piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxx",
      {'RaiseError' => 1});
528     if ('GET' eq $c->request_method && $c->param('c') eq "
      DELETE" && $c->param('query') && $c->param('location')
      && $c->param('service')) {
529     $dbh->do ("DELETE_FROM_piperpal_WHERE_name_=' " . $c->param
      ('query') . "'_AND_location_=' " . $c->param('location')
      ) . "'_AND_service_=' " . $c->param('service') . "';");
530     }
531     return;
532 }
533
534 sub insert_location {
535     my $c = CGI->new;
536     my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=

```

```

        piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxxx",
        {'RaiseError' => 1});
537 if ('GET' eq $c->request_method && $c->param('c') eq "
        INSERT" && $c->param('query') && $c->param('location')
        && $c->param('service')) {
538 # $dbh->do ("INSERT_IGNORE INTO_piperpal_(name,location,
        service,glat,glon,modified,created,paid,token,
        type,email) VALUES('" . $c->param('query') . "','" .
        $c->param('location') . "','" . $c->param('service') .
        "','" . $c->param('glat') . "','" . $c->param('glon') .
        "','" . NOW(),NOW(),1,1,'" . $c->param('stripeToken') . "
        ','" . $c->param('stripeTokenType') . "','" . $c->
        param('stripeEmail') . "') ON DUPLICATE KEY UPDATE
        modified=NOW()");
539 }
540 return;
541 }
542
543 sub insert_wikipedia {
544     my $c = CGI->new;
545     print "<script>";
546     print "getWikipedia()";
547 #function getcontent(a,b) {\n";
548 #     print "jQuery(function ($) {\n";
549 #     print "$.getJSON('http://api.geonames.org/
        findNearbyWikipediaJSON?formatted=true&lat='+_position.
        coords.latitude+'&lng='+_position.coords.longitude+'&
        username=username&style=full&lang=de&wikipediaUrl&
        thumbnailImg',_function(json) {\n";
550 #     print "for(var i=_0;i<_json.geonames.length;i++)\n";
551 #     print "{\n";
552 #     print "$("#wikipedia").prepend('<span_style="font-
        family:_geneva,_arial,_helvetica,_sans-serif;\n"><br><br><
        img_src="\wikilogo.gif"\n"><br>'+_json.geonames[i].summary_+
        '<br><a_href="\http://'+_json.geonames[i].wikipediaUrl_
        +'\"_target="_blank\n">'+_json.geonames[i].wikipediaUrl_
        +'</a><br></span>');\n";
553 #     print "};\n";
554 #     print "});}\n";
555 #     print "};";
556 #     print "getcontent(a,b)";
557 #     print "</script>";
558 print "<span_id='wikipedia'></span>\n";
559 # print
560 #     function getcontent(a,b) {
561 #         jQuery(function ($) {
562 #             $.getJSON('http://api.geonames.org/
        findNearbyWikipediaJSON?formatted=true&lat='+ a +'&lng=
        '+ b +'&username=username&style=full&lang=de&
        wikipediaUrl&thumbnailImg', function(json){
563
564 #                 for(var i = 0; i < json.geonames.length; i++)
565 #                 {
566 #                     $("#tweet").prepend('<span_style="font-family:_

```

```

        geneva, _arial, _helvetica, _sans-serif; "><br><br><img_src
        ="wikilogo.gif"><br>' + json.geonames[i].summary + '<br
        ><a_href="http://'+ json.geonames[i].wikipediaUrl + '"_
        target="_blank">' + json.geonames[i].wikipediaUrl + '</a
        ><br></span>');
567     #         }
568     #         }); }); }
569
570     # my $mw = MediaWiki::API->new();
571     # $mw->{config}->{api_url} = 'http://en.wikipedia.org/w/api
        .php';
572
573
574     # if ($c->request_method && $c->param('glat') && $c->param(
        'glon')) {
575     #     my $url = "https://en.wikipedia.org/w/api.php?action=
        query&prop=extracts|coordinates|pageimages|pageterms&
        colimit=50&piprop=thumbnail&pithumbsize=144&pilimit=50&
        wbpptterms=description&generator=geosearch&ggscoord=" .
        $c->param('glat') . "|" . $c->param('glon') . "&
        ggsradius=" . $c->param('radius') . "&ggslimit=50"; # &
        format=json";
576     #####_print_"<a href='$_.$url.$'">$_.$url.$"</a>";
577     #####_my_($json_url)_=$_.$url;
578     #####_my_($browser)_=_WWW::Mechanize->new();
579     #####_eval{
580     #####_#_download_the_json_page:
581     #####_#_print_"Getting json $json_url\n";
582     #####_#_browser->get($_.$json_url);
583     #####_#_my_$content=_$_.$browser->content();
584     #####_#_my_$json=_$_new_JSON;
585     #####
586     #####_#_these_are_some_nice_json_options_to_relax_
        restrictions_a_bit:
587     #####_#_my_$json_text=_$_.$json->allow_nonref->utf8->relaxed
        ->escape_slash->loose->allow_singlequote->allow_barekey->
        decode($content);
588     #####
589     #####_#_iterate_over_each_episode_in_the_JSON_structure:
590     #####_#_my_$page_num=_1;
591     #####_#_foreach_my_$page(@{$json_text->{query}->{pages
        }->{53445}})__{
592     #####_#_my_%ep_hash=_();
593     #####_#_sep_hash{title}_=_$_"Page $page_num: $page->{title}";
594     #####_#_sep_hash{description}_=_$_.$page->{description};
595     #####_#_sep_hash{url}_=_$_"http://en.wikipedia.org/wiki/" .
        $page->{id};
596     #     $ep_hash{publish_date} = $page->{airdate};
597     #     $ep_hash{thumbnail_url} = $page->{thumbnail}->{
        source};
598
599     #     # print page information:
600     #     while (my($k, $v) = each (%ep_hash)){
601     #         print "$k=>$_$v\n";

```

```

602     #     }
603     #     print "\n";
604
605     #     $page_num++;
606     #     }
607     # };
608     # # catch crashes:
609     # if($@){
610     #     print "[JSON_ERROR] JSON_parser_crashed!_$_@n";
611     # }
612     # }
613     print "</script>\n";
614 }
615
616 sub insert_publisher {
617     my $c = CGI->new;
618     my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
        piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxxx",
        {'RaiseError' => 1});
619     my $q;
620     if ($c->request_method == $c->param('c') && $c->param('
        query') && $c->param('location') && $c->param('service'
        )) {
621         my @tags = ($c->param('query') =~ m/(\w+)/g);
622         my $name = $c->param('query');
623
624         foreach my $tag (@tags)
625         {
626             next unless $tag =~ m/[a-zA-záää æ é í
                öø ó úü ú ]/i;
627             $name =~ s/{&$tag}{<a href="https://www.piperpal.com/
                register.cgi?name=$tag">&$tag</a>}g;
628         }
629         $q = "INSERT INTO piperpal (name, location, service, glat,
            glon, modified, created, paid, token, type, email)
            VALUES ('" . $name . "','" . $c->param('location') . "
            ',' . $c->param('service') . "','" . $c->param('glat')
            . "','" . $c->param('glon') . "','" . NOW() . "','" .
            $c->param('stripeToken') . "','" . $c->param('
            stripeTokenType') . "','" . $c->param('stripeEmail') .
            "') ON DUPLICATE KEY UPDATE modified = NOW();";
630         print $q;
631         $dbh->do ($q);
632     } else {
633         # print "Error in inserting data.";
634     }
635     return;
636 }
637
638 sub update_location {
639     my $c = CGI->new();
640     my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
        piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxxx",
        {'RaiseError' => 1});

```

```

641 # $dbh->{'mysql_enable_utf8'} = 1;
642 if ($c->param('query')) {
643 my $sth = $dbh->prepare ("SELECT_name,location,service_FROM
    _piperpal_WHERE_(name_LIKE_'%" . HTML::Entities::encode
    ($c->param('query')) . "%'_OR_service_LIKE_'%" . HTML::
    Entities::encode($c->param('query')) . "%')_ORDER_by_
    modified_DESC;");
644 $sth->execute();
645 while (my $ref = $sth->fetchrow_hashref()) {
646 my @tags = ($ref->{'name'} =~ m/&(\w+)/g);
647 foreach my $tag (@tags) {
648 next unless $tag =~ m/[a-zA-záää æ é í
    óöø õ úü ú ]/
    i;
649 print "<form_method='POST'_action='adverts.cgi'>";
650 print "<td>Word:</td><td><input_type='name'_name=' "
    . $tag . "'_value=' " . $tag . "'_/></td>";
651 print "</form>\n";
652 }
653 }
654 $sth->finish();
655 }
656 $dbh->disconnect();
657 return;
658 }
659
660 sub insert_advertiser {
661 my $c = CGI->new;
662 my $dbh = DBI->connect ("DBI:mysql:database=piperpal;host=
    piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxx",
    {'RaiseError' => 1});
664 # $dbh->{'mysql_enable_utf8'} = 1;
665 if ('GET' eq $c->request_method && $c->param('c') eq "
    INSERT" && $c->param('query') && $c->param('location')
    && $c->param('service')) {
666
667 my $sth = $dbh->prepare ("UPDATE_piperpal_SET_location_=' "
    . $c->param('location') . "'_name_=' " . HTML::
    Entities::encode($c->param('query')) . "'_service_=' "
    . $c->param('service') . "'_=' " . $c->param('location
    ') . "'_service_=' " . $c->param('service') . "'_WHERE_
    name_=' " . HTML::Entities::encode($c->param('query'))
    . "';");
668 $sth->execute();
669 while (my $ref = $sth->fetchrow_hashref()) {
670 if (is_paid($ref->{'location'})) {
671 print "<pre>UPDATE:The_location_of_" . $ref->{'name'} .
    "_ " . $ref->{'location'} . "_is_a_paid_piperpal_
    location.</pre>\n";
672 $dbh->do ("UPDATE_piperpal_SET_location_='https://www.
    piperpal.com/index.cgi?name=" . $ref->{'name'} . "&
    service=" . $ref->{'service'} . "&location=" . ($ref
    ->{'location'}) . "&paid=1'_paid=_paid+_1,_"

```



```

        modified=$_NOW()_WHERE_name=$_" . $ref->{'name'} .
        "';");
673 print "<pre>Paid_+1</pre>\n";
674 } else {
675 print "<pre>UPDATE:The_location_of_" . $ref->{'name'} .
        "_" . $ref->{'location'} . "_is_not_a_paid_
        piperpal_location.</pre>\n";
676 $dbh->do ("UPDATE_piperpal_SET_location=$_'https://www.
        piperpal.com/index.cgi?name=" . $ref->{'name'} . "&
        service" . $ref->{'service'} . "&location=" . ($ref
        ->{'location'}) . "&paid=-1',_paid=$_paid-1,_
        modified=$_NOW()_WHERE_name=$_" . $ref->{'name'} .
        "';");
677 print "<pre>Paid_-1</pre>\n";
678 }
679 $sth->finish();
680 }
681 }
682 $dbh->disconnect();
683 return;
684 }
685
686 sub select_publisher {
687     my $c = CGI->new;
688     my $q;
689     my $r;
690     my $s;
691     my $latitude;
692     my $longitude;
693     my $fp;
694     # my $fn = "/home/4/p/piperpal/pull.csv";
695     # my $string = "pull:" . $ENV{'REMOTE_ADDR'} . ":" . $q . "\
n";
696     if ($c->param('query')) {
697         $q = HTML::Entities::encode($c->param('query'));
698         # open(FH, '>', $fn) or die $!;
699         print FH $string;
700         # print $fp;
701         # close($fp);
702     } else {
703         $q = "GoogleVisitorCenter";
704     }
705     if ($c->param('service')) {
706         $s = $c->param('service');
707     } else {
708         $s = 'Search';
709     }
710     if ($c->param('radius')) {
711         $r = $c->param('radius');
712     } else {
713         $r = 1;
714     }
715     if ($c->param('glat')) {
716         $latitude = $c->param('glat');

```

```

717     } else {
718     # FIXME: READ LATITUDE FROM JAVASCRIPT
719     $latitude = $ENV{'position.coords.latitude'};
720 # 37.8790153;
721     }
722     if ($c->param('glon')) {
723     $longitude = $c->param('glon');
724     } else {
725     # FIXME: READ LONGITUDE FROM JAVASCRIPT
726     $longitude = $ENV{'position.coords.longitude'};
727 # -122.262425299999999;
728     }
729     my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
    piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxxx",
    {'RaiseError' => 1});
730 # $dbh->{'mysql_enable_utf8'} = 1;
731     my $query = "SELECT name, location, glat, glon, modified,
    created, paid, token, type, email FROM piperpal WHERE (
    name LIKE '% " . HTML::Entities::encode($c->param('query'))
    . "%') ORDER BY modified DESC";
732     $query = "SELECT DISTINCT id, name, location, service, modified
    , created, glat, glon, paid, token, type, email, 111.045*
    DEGREES(ACOS(COS(RADIANS(latpoint))*COS(RADIANS(glat))*
    COS(RADIANS(longpoint)-RADIANS(glon))+SIN(RADIANS(
    latpoint))*SIN(RADIANS(glat)))) AS distance_in_km FROM
    piperpal JOIN (SELECT " . $latitude . " AS latpoint, "
    " . $longitude . " AS longpoint) AS p ON 1=1 WHERE (
    name LIKE '% " . HTML::Entities::encode($c->param('query')
    ) . "%') HAVING distance_in_km < " . $r . " ORDER BY
    distance_in_km ASC, modified DESC";
733     my $sth = $dbh->prepare($query);
734     $sth->execute();
735     print "<table>";
736     while (my $ref = $sth->fetchrow_hashref()) {
737     print "<tr><td width='60'>&nbsp;&nbsp;&nbsp;</td><td>";
738     print "<form onsubmit='updateGeo()' _method='GET' _action='
    https://www.piperpal.com/cft/s/_id='formID'>";
739     lns_market_item($ref->{'name'}, $ref->{'location'}, $ref->{
    'service'}, $ref->{'glat'}, $ref->{'glon'}, $ref->{'
    modified'}, $ref->{'created'}, $ref->{'distance_in_km'
    });
740     print "<input type='submit' _value='Buy Location for "
    $ref->{'name'} . "' />";
741     print "</form>";
742     print "</td></tr>";
743     }
744     print "</table>";
745     $sth->finish();
746     $dbh->disconnect();
747     return;
748 }
749
750 sub select_location {
751     my $c = CGI->new;

```

```

752     my $q;
753     my $r;
754     my $latitude;
755     my $longitude;
756     my $fp;
757     # my $fn = "/home/4/p/piperpal/pull.csv";
758     # my $string = "pull:" . $ENV{'REMOTE_ADDR'} . ":" . $q . "\n";
759     if ($c->param('query')) {
760         $q = HTML::Entities::encode($c->param('query'));
761         # open(FH, '>', $fn) or die $!;
762         # print FH $string;
763         # print $fp;
764         # close($fp);
765     } else {
766         $q = "GoogleVisitorCenter";
767     }
768     if ($c->param('radius')) {
769         $r = $c->param('radius');
770     } else {
771         $r = 1;
772     }
773     if ($c->param('glat')) {
774         $latitude = $c->param('glat');
775     } else {
776         $latitude = 37.8790153;
777     }
778     if ($c->param('glon')) {
779         $longitude = $c->param('glon');
780     } else {
781         $longitude = -122.26242529999999;
782     }
783     my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
        piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxx",
        {'RaiseError' => 1});
784     # $dbh->{'mysql_enable_utf8'} = 1;
785
786     # my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
        piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxx", {'
        RaiseError' => 1});
787     # $dbh->{'mysql_enable_utf8'} = 1;
788     #my $sth = $dbh->prepare ("SELECT DISTINCT id, name, service,
        location, modified, created, glat, glon, paid, token, type,
        email, 111.045*DEGREES(ACOS(COS(RADIANS(latpoint))*COS(
        RADIANS(glat))*COS(RADIANS(longpoint)-RADIANS(glon))+
        SIN(RADIANS(latpoint))*SIN(RADIANS(glat)))) AS
        distance_in_km FROM piperpal JOIN (SELECT
        $latitude AS latpoint,
        $longitude AS longpoint) AS p ON 1=1 WHERE paid > 0 AND name LIKE
        '%' . $q . '%" HAVING distance_in_km < " . $r . " ORDER
        BY distance_in_km");
789     my $sth = $dbh->prepare ("SELECT DISTINCT name, location,
        service, glat, glon, modified, created, paid, token, type,
        email FROM piperpal WHERE modified < NOW() and created

```

```

    >_NOW()_ORDER_by_modified_DESC,_name_ASC;");
790 $sth->execute();
791 while (my $ref = $sth->fetchrow_hashref()) {
792     #print "<h3><a_href='https://piperpal.com/' . $ref->{'name'
    } . "'>" . $ref->{'name'} . "</a></h3>";
793     print "<form_onsubmit='updateGeo()'_method='GET'_action='
        https://www.piperpal.com/cft/s/'_id='formID'>";
794     lns_market_item($ref->{'name'}, $ref->{'location'}, $ref->{
        'service'}, $ref->{'glat'}, $ref->{'glon'}, $ref->{'
        modified'}, $ref->{'created'});
795     print "<input_type='submit'_value='Buy_Location_for_" .
        $ref->{'name'} . "' />";
796     print "</form>\n";
797 }
798 $sth->finish();
799 $dbh->disconnect();
800 return;
801 }
802
803 sub select_market {
804     my $c = CGI->new;
805     my $q;
806     my $r;
807     my $latitude;
808     my $longitude;
809     if ($c->param('query')) {
810         $q = HTML::Entities::encode($c->param('query'));
811     } else {
812         $q = "GoogleVisitorCenter";
813     }
814     if ($c->param('radius')) {
815         $r = $c->param('radius');
816     } else {
817         $r = 25;
818     }
819     if ($c->param('glat')) {
820         $latitude = $c->param('glat');
821     } else {
822         $latitude = 37.8790153;
823     }
824     if ($c->param('glon')) {
825         $longitude = $c->param('glon');
826     } else {
827         $longitude = -122.26242529999999;
828     }
829     my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
        piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxxx",
        {'RaiseError' => 1});
830 #     $dbh->{'mysql_enable_utf8'} = 1;
831     my $query = "SELECT_name,location,service,glat,glon,
        modified,created,paid,token,type,email_FROM_piperpal_
        WHERE_(name_LIKE_'%" . $q . "%'_OR_service_LIKE_'%" .
        $q . "%')_AND_paid_>'0'_ORDER_by_modified;";
832     $query = "SELECT_DISTINCT_id,name,location,modified,created

```

```

        , glat, glon, paid, token, type, email, 111.045*DEGREES (ACOS (
        COS (RADIANS (latpoint)) *COS (RADIANS (glat)) *COS (RADIANS (
        longpoint)-RADIANS (glon)) +SIN (RADIANS (latpoint)) *SIN (
        RADIANS (glat))) )_AS_distance_in_km_FROM_piperpal_JOIN_(
        SELECT_ " . $latitude . " _AS_latpoint, " . $longitude
        . " _AS_longpoint) _AS_p_ON_1=1_WHERE_ (name_LIKE_ '%' . $q
        . "%') _HAVING_ distance_in_km_<_ " . $r . " _ORDER_BY_
        distance_in_km, modified";
833 my $sth = $dbh->prepare ($query);
834 $sth->execute();
835 # print "</td></tr></table><table><tr><td>";
836 while (my $ref = $sth->fetchrow_hashref()) {
837     print "<form_onsubmit='updateGeo()' _id='lnsForm' _name='
        lnsForm' _action='https://www.piperpal.com/checkout.php'
        _method='POST'>";
838 # print "<table><tr><td_width='60'>&nbsp;&nbsp;&nbsp;</td><td>";
839     lns_market_item($ref->{'name'}, $ref->{'location'}, $ref->{
        'service'}, $ref->{'glat'}, $ref->{'glon'}, $ref->{'
        modified'}, $ref->{'created'}, $ref->{'distance_in_km'
        });
840     print "<input_type='submit' _value='Buy_Location_for_' .
        $ref->{'name'} . "' />";
841 # print "</td></tr></table>";
842     print "</form>";
843     }
844     print "</td></tr></table>";
845     $sth->finish();
846     $dbh->disconnect();
847     return;
848 }

```


Chapter 3

Query Interface on World Wide Web – www.piperpal.com

Our working implementation of “Location Search on World Wide Web” is on <http://www.piperpal.com/>.

3.1 Source: <https://www.piperpal.com/index.cgi>

```
1 #!/usr/bin/perl
2
3 # Copyright (C) 2015, 2019 Aamot Software
4 #
5 # Author: ole@aamotsoftware.com
6 #
7 # Date: 2015-09-03T11:15:00+01
8 #
9 # Field: Incremental, location, sql, perl
10 #
11 # URL: https://www.piperpal.com/index.cgi
12
13 use strict;
14 use warnings;
15 use DBI;
16 use CGI qw/:standard/;
17 use CGI::Cookie;
18 use lib '..';
19 use Piperpal;
20
21 my $c = CGI->new;
22 print "Content-Type:_text/html\n\n";
```

```
23 print <<EOF;
24 <!DOCTYPE html>
25 <html lang="en">
26   <head>
27     <style>
28       #name label{
29         display: inline-block;
30         width: 100px;
31         text-align: right;
32       }
33       #name_submit{
34         padding-left: 100px;
35       }
36       #name div{
37         margin-top: 1em;
38       }
39       textarea{
40         vertical-align: top;
41         height: 5em;
42       }
43
44       .error{
45         display: none;
46         margin-left: 10px;
47       }
48
49       .error_show{
50         color: red;
51         margin-left: 10px;
52       }
53
54       input.invalid, textarea.invalid{
55         border: 2px solid red;
56       }
57
58       input.valid, textarea.valid{
59         border: 2px solid green;
60       }
61     </style>
62     <meta property="al:android:app_name" content="Piperpal" />
63     <meta property="al:android:package" content="com.piperpal.
64       api.android" />
65     <meta property="al:android:url" content="https://www.
66       piperpal.com/Android" />
67     <!--[if IE]><![endif]-->
68     <meta charset="iso-8859-1">
69
70     <!--[if IE 8]>
71       <link href="/css/common_o2.1_ie8-91981
72         ea8f3932c01fab677a25d869e49.css" media="all" rel="
73         stylesheet" type="text/css" />
74     <![endif]-->
75     <!--[if !(IE 8)]><!-->
```



```

72     <link href="/css/common_o2.1-858
       f47868a8d0e12dfa7eb60fa84fb17.css" media="all" rel="
       stylesheet" type="text/css" />
73 <!--<![endif]-->
74
75 <!--[if lt IE 9]>
76     <link href="/css/airglyphs-ie8-9
       f053f042e0a4f621cbc0cd75a0a520c.css" media="all" rel="
       "stylesheet" type="text/css" />
77 <![endif]-->
78
79     <link href="/css/main-f3fcc4027aaa2c83f08a1d51ae189e3b.css"
       media="screen" rel="stylesheet" type="text/css" />
80 <!--[if IE 7]>
81     <link href="/css/pl_ie_7-0ab7be89d3999d751ac0e89c44a0ab50.
       css" media="screen" rel="stylesheet" type="text/css" />
82 <![endif]-->
83 <!--[if IE 6]>
84     <link href="/css/pl_ie_6-7d6a1fd8fe9fdf1ce357f6b864c83979.
       css" media="screen" rel="stylesheet" type="text/css" />
85 <![endif]-->
86 <!-- FIXME
87 <script type="text/javascript" src="https://www.piperpal.
       com/piperpal-autocomplete-tours.php"></script>
88 FIXME -->
89 <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/
       themes/smoothness/jquery-ui.css">
90 <script src="//code.jquery.com/jquery-1.10.2.js"></script>
91 <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></
       script>
92 <meta name="viewport" content="user-scalable=yes, _initial-
       scale=1.0, _maximum-scale=3, _minimum-scale=0.5, _width=
       device-width">
93 <!--
94 <link rel="dns-prefetch" href="//maps.googleapis.com">
95 -->
96 <link rel="dns-prefetch" href="//maps.gstatic.com">
97 <link rel="dns-prefetch" href="//mts0.googleapis.com">
98 <link rel="dns-prefetch" href="//fonts.googleapis.com">
99 <link rel="dns-prefetch" href="//www.piperpal.com">
100 <title>piperpal.com - Location-based Search Engine</title>
101 <link href="my_style_form.css" type="text/css" rel="
       stylesheet" />
102 <link href='http://fonts.googleapis.com/css?family=
       Titillium+Web:700' rel='stylesheet' type='text/css'>
103 <link href='http://fonts.googleapis.com/css?family=
       Titillium+Web' rel='stylesheet' type='text/css'>
104 <meta charset="iso-8859-1" />
105 <script>
106 function price_changed() {
107     var priceWidget = document.getElementById('price');
108     var price = priceWidget.options[priceWidget.
       selectedIndex].value;

```

```

109     var stripeSubmit = document.getElementsByClassName('
110         stripe-button-el')[0];
111     var regularSubmit = document.getElementById('regular-
112         submit');
113     if (price > 0) {
114         stripeSubmit.style.display = 'inline-block';
115         regularSubmit.style.display = 'none';
116     } else {
117         stripeSubmit.style.display = 'none';
118         regularSubmit.style.display = 'inline-block';
119     }
120 }
121
122 function updateGeo() {
123     var glat = document.getElementById("glat");
124     var glon = document.getElementById("glon");
125
126     glat.value = position.coords.latitude;
127     glon.value = position.coords.longitude;
128
129     alert(glat+","+glon);
130 }
131
132 function getWikipedia() {
133     jQuery(function($) {
134         $.getJSON('http://api.geonames.org/findNearbyWikipediaJSON?
135             formatted=true&lat='+ position.coords.latitude +'&lng='
136             + position.coords.longitude +'&username=username&style=
137             full&lang=en&wikipediaUrl&thumbnailImg', function(json)
138             {
139                 for(var i = 0; i < json.geonames.length; i++)
140                 {
141                     $("#wikipedia").prepend('<span_style="font-family:_
142                         geneva,_arial,_helvetica,_sans-serif;"><br><br><br>' + json.geonames[i].
144                         summary + '<br><a_href="http://'+ json.geonames[i].
145                         wikipediaUrl +' "_target="_blank">' + json.geonames[i]
146                         ].wikipediaUrl +'</a><br></span>');
147                 }
148             }); });
149 }
150
151 function submit() {
152     // Strip hijacks the form submit, so we need to un-
153     // hijack it.
154     var form = document.getElementById('form');
155     form.submit();
156 }
157
158 </script>
159 <meta http-equiv="Content-Type" content="text/html;_charset
160     =iso-8859-1" >
161 <meta http-equiv="X-UA-Compatible" content="IE=edge" >

```

```

149 <link href='//fonts.googleapis.com/css?family=Titillium+Web
      :300italic,400,700,400italic,600italic' rel='stylesheet
      ' type='text/css'>
150 <link href='//fonts.googleapis.com/css?family=Titillium+Web
      :300italic,400,700,400italic,600italic' rel='stylesheet
      ' type='text/css'>
151
152 <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/
      themes/smoothness/jquery-ui.css">
153 <script src="//code.jquery.com/jquery-1.10.2.js"></script>
154 <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></
      script>
155
156 <script type="text/javascript" src="https://www.piperpal.
      com/jquery-1.9.1.min.js"></script>
157 <script type="text/javascript" src="https://www.piperpal.
      com/jquery.autocomplete.min.js"></script>
158 <!-- FIXME
159 <script type="text/javascript" src="https://www.piperpal.
      com/piperpal-autocomplete.php"></script>
160 <script type="text/javascript" src="https://www.piperpal.
      com/piperpal-autocomplete-names.php"></script>
161 <script type="text/javascript" src="https://www.piperpal.
      com/piperpal-autocomplete-services.php"></script>
162 <script type="text/javascript" src="https://www.piperpal.
      com/piperpal-autocomplete-locations.php"></script>
163 <script type="text/javascript" src="https://www.piperpal.
      com/piperpal-autocomplete-queries.php"></script>
164 FIXME -->
165 <meta name="viewport" content="user-scalable=yes, _initial-
      scale=1.0, _maximum-scale=3, _minimum-scale=0.5, _width=
      device-width">
166 <script>
167 \$(function() {
168 \$( "#datepicker" )\$.datepicker\(\)\;
169 \$( "#simple-search-tourout" )\$.datepicker\(\)\;
170 \}\)\;
171 </script>
172 <meta name="viewport" content="user-scalable=yes, _initial-
      scale=1.0, _maximum-scale=3, _minimum-scale=0.5, _width=
      device-width">
173 </head>
174 <body style="background:_#ffffff;" onload="document.
      getElementById('query').focus();">
175
176 <!--
177 <script type="text/javascript" src="http://maps.google.com/
      maps/api/js?sensor=true"></script>-->
178 <!--script type="text/javascript" src="http://maps.google.
      com/maps/api/js?sensor=false"--><!--/script-->
179 <script>
180 function success(position) {
181 var s = document.querySelector('#status');
182

```

```

183     if (s.className == 'success') {
184         // not sure why we're hitting this twice in FF, I think
185         // it's to do with a cached result coming back
186         return;
187     }
188     s.innerHTML = '<input_type=hidden_class="
189         input_form_custom" _name=glat_value=' + position.
190         coords.latitude + ' _/><input_type=hidden_class="
191         input_form_custom" _name=glon_value=' + position.
192         coords.longitude + ' _/>';
193     s.className = 'success';
194
195     var q = document.querySelector('#status_publisher');
196
197     if (q.className == 'success') {
198         // not sure why we're hitting this twice in FF, I think
199         // it's to do with a cached result coming back
200         return;
201     }
202
203     q.innerHTML = '<img_src="img/Latitude_Icon.png" _title="
204         Latitude_of_Location-aware_Content_Tag" _class="
205         icon_form" _height="36" _width="36"><input_type=text_
206         class="input_form_custom" _name=glat_size=16_value='
207         + position.coords.latitude + ' _/><br_><img_src="
208         img/Longitude_Icon.png" _title="Longitude_of_
209         Location-aware_Content_Tag" _class="icon_form" _
210         height="36" _width="36"><input_type=text_class="
211         input_form_custom" _name=glon_size=16_value=' +
212         position.coords.longitude + ' _/>';
213
214     // '<input type=text name=glat size=16 value=' +
215     // position.coords.latitude + ' /><input type=text
216     // name=glon size=16 value=' + position.coords.
217     // longitude + ' />';
218     q.className = 'success';
219
220     var r = document.querySelector('#status_lns');
221
222     if (r.className == 'success') {
223         // not sure why we're hitting this twice in FF, I think
224         // it's to do with a cached result coming back
225         return;
226     }
227
228     r.innerHTML = '<img_src="img/Latitude_Icon.png" _title
229         ="Latitude_of_Location-aware_Content_Tag" _class="
230         icon_form" _height="36" _width="36"><input_type=text_
231         class="input_form_custom" _name=glat_size=16_value='
232         + position.coords.latitude + ' _/><br_><img_src="
233         img/Longitude_Icon.png" _title="Longitude_of_
234         Location-aware_Content_Tag" _class="icon_form" _
235         height="36" _width="36"><input_type=text_class="
236         input_form_custom" _name=glon_size=16_value=' +

```

```
                position.coords.longitude + ' />';
210
211 //<input type=hidden class="input_form_custom" name=glat value
    =' + position.coords.latitude + ' /><input type=hidden
    class="input_form_custom" name=glon value=' + position.
    coords.longitude + ' />';
212     r.className = 'success';
213
214     var mapcanvas = document.createElement('div');
215     mapcanvas.id = 'mapcanvas';
216     mapcanvas.style.height = '400px';
217     mapcanvas.style.width = '640px';
218
219     document.querySelector('article').appendChild(mapcanvas);
220
221     var latlng = new google.maps.LatLng(position.coords.
        latitude, position.coords.longitude);
222     var myOptions = {
223     zoom: 15,
224     center: latlng,
225     mapTypeControl: false,
226     navigationControlOptions: {style: google.maps.
        NavigationControlStyle.SMALL},
227     mapTypeId: google.maps.MapTypeId.ROADMAP
228     };
229     var map = new google.maps.Map(document.getElementById("
        mapcanvas"), myOptions);
230
231     var marker = new google.maps.Marker({
232     position: latlng,
233     map: map,
234     title:"You are here!_(at_least_within_a_+
        position.coords.accuracy+"_meter_radius)"
235     });
236
237     var locations = [
238     ['Banja_Luka', 44.766666699999990000,
        17.1833332999999960000, 4],
239     ['Tuzla', 44.5328410000000000000, 18.6704999999999947000, 5],
240     ['Zenica', 44.2034392000000000000, 17.907743200000027000,
        3],
241     ['Sarajevo', 43.8500000000000000000, 18.2500000000000000000,
        2],
242     ['Mostar', 43.3333333000000000000, 17.799999999999954000, 1]
243 ];
244
245 var infowindow = new google.maps.InfoWindow();
246
247 var marker, i;
248 for (i = 0; i < locations.length; i++) {
249     marker = new google.maps.Marker({
250     position: new google.maps.LatLng(locations[i][1],
        locations[i][2]),
251     map: map
```

```

252         });
253
254 google.maps.event.addListener(marker, 'click', (function (
    marker, i) {
255     return function () {
256         infowindow.setContent(locations[i][0]);
257         infowindow.open(map, marker);
258     }
259         })(marker, i));
260 }
261 }
262
263 function error(msg) {
264     // var s = document.querySelector('#status');
265     // s.innerHTML = typeof msg == 'string' ? msg : "failed";
266     // s.className = 'fail';
267
268     // console.log(arguments);
269 }
270
271 if (navigator.geolocation) {
272     navigator.geolocation.getCurrentPosition(success, error);
273 } else {
274     error('not_supported');
275 }
276
277 </script>
278
279     <center><table border='0'><tr><td valign='top' width='100%'
        align='center'><a href="https://www.piperpal.com/"><
        img src='/piperpal.png' alt='piperpal.com_Logo' width="
        320" align=center/></a></td></tr>
280
281     <div class="background_form">
282 EOF
283
284 print "<tr><td_valign='top' _width='100%' _align='center'>";
285 #print "<h3>Discover_the_world_around_you_in_<span_id='
    countdowntimer'></span>_seconds</h3>";
286 print "<script_type='text/javascript'>";
287 print "function_increase(){";
288 print "    var_counterElement=_document.getElementById
    (\\"countdowntimer\\");";
289 print "    var_counter=_counterElement.textContent;";
290 print "    counter++;";
291 print "    counterElement.innerHTML=_counter;";
292 print "    }";
293 print "    window.onload=_increase;";
294 print "</script>";
295 print "<h4>12_Million_Locations_at_Your_Fingertips</h4>";
296 print "<label_for=\\\"countdowntimer\\\">Location_Search_progress</
    label>";
297 print "<progress_id=\\\"countdowntimer\\\" _max=\\\"50\\\">10%</progress
    >";

```

```

298 print "<script_type=\"text/javascript\"_src=\"https://api.
    piperpal.com/location/json.php?service=Restaurant&glat='_+_
    position.coords.longitude+_+'&glon='_+_position.coords.
    longitude+_+'\"></script>\n";
299 print "<script_language=\"JavaScript\">\n";
300 print "var_obj_=_JSON.parse(locations);\n";
301 print "for_(i=0;_i<_obj.locations.length;_i++)_{\n";
302 print "document.write(\"<h1>\n+_obj.locations[i].name+_\"</h1
    ><h2><a_href='\"+_obj.locations[i].location+_\">\n+_obj
    .locations[i].location+_\"</a>_(\n+_obj.locations[i].
    distance+_\"</h2><h3>\n+_\"+_obj.locations[i].
    service+_\"</h3>\n");\n";
303 print "<!--document.write(\"<p>\n+_obj.locations[i].distance+_
    _\"</p><form_method='GET'_action='/search.php#results'><
    input_type='text'_name='name'_placeholder=''_value='\"+_
    obj.locations[i].name+_\"'/><input_type='hidden'_name='
    glat'_value='\"+_obj.locations[i].glat+_\"'/><input_type
    ='hidden'_name='glon'_value='\"+_obj.locations[i].glon+_
    _\"'/><span_id='geopher'></span><select_name='service'><
    option_value='Food'>Food</option><option_selected_value='
    Search'>Search</option></select><input_type='submit'_value
    ='Search'_/><br_>\");_-->\n";
304 print "}}\n";
305 print "</script>\n";
306 print "<h3>It\'s_not_where_you\'re_from,_it\'s_where_you\'re_at
    </h3>";
307 print "<p><a_href=\"https://www.piperpal.com/tutorial/\">
    Piperpal_4.0_Tutorial</a></p>";
308 # print "<p>The_Piperpal_implementation_of_Location_Search_for_
    World_Wide_Web<br_>is_described_in_<a_href=\"https://www.
    piperpal.com/thesis.pdf\">https://www.piperpal.com/thesis.
    pdf</a>_ready_for_2026.</p>";
309 &Piperpal::input_searchers($c);
310 print "<a_name='results'><a_href=\"https://www.piperpal.com
    /\"><img_src='/piperpal.png'_alt='piperpal.com_Logo'_width
    =\"320\"_align=center/></a><br_>
311 <h3><a_href=\"https://www.piperpal.com/\">Location_Search_
    Results</a></h3></a>";
312 &Piperpal::select_publisher();
313 print "<br_>";
314 print "<br_>";
315 print "<br_>";
316 print "<br_>";
317 print "<br_>";
318 print "<p>You_could_markup_with_&lt;location&gt;_tag_in_<a_href
    ='https://www.w3.org/wiki/HTML/next#.3Clocation.3E_element_
    .28like_.29_for_expressing_geo_information.2
    C_eg_with_attributes_lat.2C_long.2C_altitude'>HTML</a><br_
    />";
319 print "<a_href=\"https://www.aamotsoftware.com/location.html\">
    https://www.aamotsoftware.com/location.html</a></p>";
320 print "<p><a_href='https://www.stripe.com/'><img_alt='
    Powered_by_stripe\'_src='/powered_by_stripe.png\'></a>&
    nbsp;<a_href='https://play.google.com/store/apps/details?

```

```

        id=com.piperpal.api.android&pcampaignid=MKT-Other-global-
        all-co-prtnr-py-PartBadge-Mar2515-1'><img_alt='Get_it_on_
        Google_Play\'_src='\ /google-piperpal.png\' /></a></p>";
321 print "<p>Copyright_&copy;_2015-2022_<location_name='Aamot_
        Software'_href='https://www.aamotsoftware.com/'_lat
        ='37.4219999'_lon='-122.0862462'_service='Electronics'>
        Aamot_Software</location><br_><location_name='Piperpal'_
        href='https://www.piperpal.com/'_lat='59.94215220'_lon
        ='10.71697530'_service='Crawler'>Oslo,_Norway</location>_<
        <location_name='Piperpal'_href='https://www.piperpal.com/'_
        lat='37.879015'_lon='-122.262425'_service='Crawler'>
        Berkeley,_California,_USA</location></p>";
322 #print "<h2>Wikipedia_Location-aware_Content</h2>";
323 #&Piperpal::insert_wikipedia();
324 #print "</td></tr><tr><td_valign='top'_width=512>";
325 #print "<h3>Be_discovered_by_the_world_around_you</h3>";
326 #print "<p>Submit_entries_in_Piperpal\'s_Location-aware_Search_
        Engine</p>";
327 #&Piperpal::input_publisher();
328 #&Piperpal::insert_publisher();
329 print '<h3>News</h3>';
330 print '<p><b>2022</b></p>';
331 print '<p><a_href="https://www.aamotsoftware.com/">Aamot_
        Software</a>\'s_Location_Entries_can_be_ordered_for_$0.42_
        USD_per_location_at_<a_href="https://www.piperpal.com/
        google.html">https://www.piperpal.com/google.html</a>';
332 print '<p><b>2021</b></p>';
333 print '<p><a_href="https://www.aamotsoftware.com/">Aamot_
        Software</a>\'s_second_functional_example_of_HTML_with_
        location_tagging_and_fetching_was_stored_on_<a_href="https
        ://piperpal.com/google.html">https://piperpal.com/google.
        html</a></p>';
334 print '<p><b>2020</b></p>';
335 print '<p><a_href="https://www.aamotsoftware.com/">Aamot_
        Software</a>\'s_Indexer_for_Piperpal_written_in_the_
        programming_language_Python_can_now_recursively_index_
        location_tags_as_specified_on_<a_href="https://www.
        aamotsoftware.com/location.html">https://www.aamotsoftware.
        com/location.html</a>_from_web_pages_that_are_listed_for_
        such_indexing_on_<a_href="https://www.aamotsoftware.com/
        location-source.html">https://www.aamotsoftware.com/
        location-source.html</a></p>';
336 print '<p><b>2015</b></p>';
337 print '<p><a_href="https://www.aamotsoftware.com/">Aamot_
        Software</a>\'s_first_practical_example_of_location_tagging
        _with_Piperpal_was_stored_on_<a_href="https://piperpal.com/
        Googleplex">https://piperpal.com/Googleplex</a>_at_a_lunch_
        table_with_<a_href="http://www.norvig.com/">Peter_Norvig</a
        >_in_the_Googleplex_in_Mountain_View,_California_in_2015_
        where_he_mentioned_crowd_sourcing_of_location_tags_with_a_
        neural_network_filter_as_future_work.</p>';
338 print '<p><a_href="https://www.aamotsoftware.com/">Aamot_
        Software</a>\'s_presentation_for_<a_href="http://research.
        google.com/">Google_Research</a>:_<a_href="https://www.

```



```
    piperpal.com/doc/3.0/Piperpal-Location-aware-ContentTag.pdf
    ">Location-aware_Content_Tag:&lt;location&gt;,&location_
markup</a></p>';
339 #<tr><td width=60>&nbsp;</td><td><p>Copyright &copy; 2015-2022
    <a href='http://www.aamotsoftware.com/'>Ole Aamot Software
    </a>";
340 print "</td></tr></table>\n";
341 #print "<p>Copyright_&copy;_2018_<a_href=\"https://www.
    aamotsoftware.com/\">Ole_Aamot_Software</a></p>";
342 print "</body>\n</html>\n";
```


Chapter 4

Query Interface API on World Wide Web – api.piperpal.com

4.1 Source: <https://api.piperpal.com/index.php>

```
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <script src="http://code.jquery.com/jquery-latest.min.js"
5       ></script>
6     <meta charset="utf-8">
7     <title>Piperpal</title>
8   </head>
9   <body>
10    <div id="log"></div>
11    <script>
12      $(document).ready(function() {
13
14        setInterval(function() {
15
16          if (navigator.geolocation) {
17            navigator.geolocation.
18              getCurrentPosition(ajaxCall);
19          } else{
20            $('#log').html("GPS_is_not_available")
21            ;
22          }
23
24          function ajaxCall(position) {
```

```

23     var latitude = position.coords.
24         latitude;
25     var longitude = position.coords.
26         longitude;
27     var location = window.location.
28         pathname.substr(1);
29     var queryString = window.location.
30         search;
31     var urlParams = new URLSearchParams(
32         queryString);
33     // alert(queryString+":("+latitude
34         +","+longitude+")");
35     $.ajax({
36         url: "https://api.piperpal.com/
37             pull.php",
38         type: 'POST', //I want a
39             type as POST
40         data: {'glat' : latitude, '
41             glon' : longitude, '
42             location' : location, '
43             name' : urlParams.get('
44             name'), 'service' :
45             urlParams.get('service'),
46             'radius' : urlParams.get('
47             radius') },
48         success: function(response
49             ) {
50             $('#log').html(
51                 response);
52             // alert(response);
53         }
54     });
55 }
56 },15000);
57
58 });
59 </script>
60 <h2>Documentation</h2>
61 <h3>Location JavaScript API</h3>
62 <h4>Pull</h4>
63 <pre>
64 &lt;script type="text/javascript" src="https://api.
65     piperpal.com/location/json.php?service=Books&glat
66     =37.4375596&glon=-122.11922789999998"&gt;&lt;/
67     script&gt;
68 </pre>
69 <h4>Push</h4>
70 <pre>
71 <span style="color: #ff0000">Example</span>
72 https://api.piperpal.com/location/push.php?name=<span
73     style="color: #ff0000">Google</span>&location=<span
74     style="color: #ff0000">http://www.google.com/</
75     span>&service=<span style="color: #ff0000">Books</

```

```

        span>&glat=<span style="color: #ff0000
        ">37.4375596</span>&glon=<span style="color: #
        ff0000">-122.119227899999998</span>&paid=<span style
        ="color: #ff0000">50</span>
54     </pre>
55     <p>&copy; 2022 Aamot Software</p>
56 </body>
57 </html>

```

4.2 Source: <https://api.piperpal.com/pull.php>

```

1 <?php
2
3 $db = mysqli_connect("piperpal.mysql.domeneshop.no","piperpal",
4     "xxxxxxxx","piperpal");
5 $query = "SELECT DISTINCT id,name,service,location,modified,
6     created,glat,glon,paid,token,type,email,111.045*DEGREES(
7     ACOS(COS(RADIANS(latpoint))*COS(RADIANS(glat))*COS(RADIANS(
8     longpoint)-RADIANS(glon))+SIN(RADIANS(latpoint))*SIN(
9     RADIANS(glat)))) AS distance_in_km FROM piperpal JOIN (
10    SELECT " . $_POST['glat'] . " AS latpoint," . $_POST['
11    glon'] . " AS longpoint) AS p ON 1=1 WHERE name=" .
12    $_POST['name'] . "' OR service LIKE " . $_POST['service'
13    ] . "' HAVING distance_in_km <" . $_POST['radius'] . "
14    ORDER BY distance_in_km ASC, modified DESC";
15 $result = $db->query($query);
16 $num_coords = mysqli_num_rows($result);
17 if ($num_coords == 0) {
18     print "<form onSubmit='updateGeo()' id='lnsForm' name='
19         lnsForm' action='https://www.piperpal.com/checkout.php'
20         method='POST'>";
21     print "<input type='hidden' name='c' value='INSERT' />\n";
22     print "<table cellpadding=5><tr>";
23     print "<td><a href='http://piperpal.com/" . $_POST['name']
24         . "'><img border=0 width=16 height=16 src='/js-icon.png
25         '/></td>";
26     print "<td><input size=16 type=text name=name class=
27         biginput id=name placeholder='Name' value=' " . $_POST['
28         name'] . "' /></td>\n";
29     print "<td><input size=20 type=text name=location class=
30         biginput id=location placeholder='http://' value=' " .
31         $_SERVER['HTTP_REFERER'] . "' /></td>\n";
32     print "<td><input size=16 type=text name=service class=
33         biginput id=service placeholder='Service' value=' " .
34         $_POST['service'] . "' /></td>\n";

```

```

15     print "<div_id='status'><input_type='hidden'_name='glat'_
        placeholder='Latitude'_size=16_value=' " . $_POST['glat'
        ] . "'_><input_type='hidden'_name='glon'_placeholder='
        Longitude'_size=16_value=' " . $_POST['glon'] . "'_></
        div>\n";
16     print "<td><form_action=''_method='POST'><script_src='https
        ://checkout.stripe.com/checkout.js'_class='stripe-
        button'_data-key='
        pk_live_9UbKhDJJWafNmjYQTBA8I9i00H8Z5eMmL'_data-amount
        ='43'_data-name='Aamot_Software'_data-description='
        Piperpal_&" . $_POST['name'] . "%" . $_POST['service']
        . "_ (USD_0.43)'_data-image='/128x128.png'></script></td
        >";
17     print "</tr>\n";
18     print "</form>\n";
19 } else {
20     print "var_locations_=" . "{ \"locations\" : [" . "\n";
21     while($object = mysqli_fetch_object($result)) {
22         print "_____{"_id:" . $object->id . " ,_name:" . $object
            ->name . " ,_service:" . $object->service . " ,_
            location:" . $object->location . " ,_modified:" .
            $object->modified . " ,_created:" . $object->created
            . " ,_glat:" . $object->glat . " ,_glon:" . $object
            ->glon . " ,_distance:" . $object->distance_in_km . "
            ,_paid:" . $object->paid . " ,_token:" . $object->
            token . " ,_type:" . $object->type . " ,_email:" .
            $object->email . " } \n";
23     }
24     print "]}";
25 }
26 ?>

```

Chapter 5

Location Search on World Wide Web – www.piperpal.com/location

5.1 Source: <https://www.piperpal.com/location/index.html>

5.2 Source: <https://www.piperpal.com/location/location.html>

```
1 <script type="text/javascript" src="https://api.piperpal.com/
  location/json.php?service=Books&glat=' + _position.coords.
  longitude + '&glon=' + _position.coords.longitude + '"></
  script>
2 <script language="JavaScript">
3 var obj = JSON.parse(locations);
4 for (i=0; i < obj.locations.length; i++) {
5   document.write("<h1>" + obj.locations[i].name + "</h1><h2><a
     href=' " + obj.locations[i].location + "'>" + obj.
     locations[i].location + "</a>" + obj.locations[i].
     distance + "</h2><h3>" + " " + obj.locations[i].service
     + " " + "</h3>\n");
6   <!--document.write("<p>" + obj.locations[i].distance + "</p
     ><form_method='GET' _action='/search.php'><input_type='
     text' _name='name' _placeholder=' ' _value=' " + obj.
     locations[i].name + "' /><input_type='hidden' _name='glat'
     _value=' " + obj.locations[i].glat + "' /><input_type='
     hidden' _name='glon' _value=' " + obj.locations[i].glon + "
     ' /><span_id='geopher'></span><select_name='service'><
```

```

    option_value='Food'>Food</option><option_selected_value
    =' Search'>Search</option></select><input_type=' submit' _
    value=' Search' _/><br_>"); -->
7 }
8 </script>
9 <location name="Berkeley" location="http://berkeley.edu/"
    service="Books" glat="59.9340451" glon="10.7481188"
    notbefore="2020-03-30_12:00:00" notafter="2020-03-31_
    12:00:00" paid="50" />
10 <location name="Palo_Alto" lat="37.4375596" lon="
    -122.11922789999998" href="http://berkeley.edu/">
11 <p>Check out <a href="https://www.geopher.com/paloalto.html">
    Palo Alto</a> and <a href="http://piperpal.com/">Piperpal</
    a>.</p>
12 </location>
13
14 <!DOCTYPE html>
15 <html lang="en">
16   <head>
17     <meta property="al:android:app_name" content="Piperpal" />
18     <meta property="al:android:package" content="com.piperpal.
    api.android" />
19     <meta property="al:android:url" content="https://www.
    piperpal.com/Android" />
20     <!--[if IE]><![endif]-->
21     <meta charset="utf-8">
22
23     <!--[if IE 8]>
24       <link href="/css/common_o2.1_ie8-91981
    ea8f3932c01fab677a25d869e49.css" media="all" rel="
    stylesheet" type="text/css" />
25     <![endif]-->
26     <!--[if !(IE 8)]><!-->
27       <link href="/css/common_o2.1-858
    f47868a8d0e12dfa7eb60fa84fb17.css" media="all" rel="
    stylesheet" type="text/css" />
28     <!--<![endif]-->
29
30     <!--[if lt IE 9]>
31       <link href="/css/airglyphs-ie8-9
    f053f042e0a4f621cbc0cd75a0a520c.css" media="all" rel=
    "stylesheet" type="text/css" />
32     <![endif]-->
33
34     <link href="/css/main-f3fcc4027aaa2c83f08a1d51ae189e3b.css"
    media="screen" rel="stylesheet" type="text/css" />
35 <!--[if IE 7]>
36   <link href="/css/pl_ie_7-0ab7be89d3999d751ac0e89c44a0ab50.
    css" media="screen" rel="stylesheet" type="text/css" />
37 <![endif]-->
38 <!--[if IE 6]>
39   <link href="/css/pl_ie_6-7d6a1fd8fe9fdf1ce357f6b864c83979.
    css" media="screen" rel="stylesheet" type="text/css" />
40 <![endif]-->

```



```

41     <script type="text/javascript" src="https://www.piperpal.
42         com/piperpal-autocomplete-tours.php"></script>
43 <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/
44     themes/smoothness/jquery-ui.css">
45 <script src="//code.jquery.com/jquery-1.10.2.js"></script>
46 <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></
47     script>
48 <meta name="viewport" content="user-scalable=no, _initial-
49     scale=1.0, _maximum-scale=1.0, _width=device-width">
50 <link rel="dns-prefetch" href="//maps.googleapis.com">
51 <link rel="dns-prefetch" href="//maps.gstatic.com">
52 <link rel="dns-prefetch" href="//mts0.googleapis.com">
53 <link rel="dns-prefetch" href="//fonts.googleapis.com">
54 <link rel="dns-prefetch" href="//www.piperpal.com">
55 <title>piperpal.com - Location-based Search Engine</title>
56 <link href="my_style_form.css" type="text/css" rel="
57     stylesheet" />
58 <link href='http://fonts.googleapis.com/css?family=
59     Titillium+Web:700' rel='stylesheet' type='text/css'>
60 <link href='http://fonts.googleapis.com/css?family=
61     Titillium+Web' rel='stylesheet' type='text/css'>
62 <meta charset="utf-8" />
63 <script>
64 function price_changed() {
65     var priceWidget = document.getElementById('price');
66     var price = priceWidget.options[priceWidget.
67         selectedIndex].value;
68     var stripeSubmit = document.getElementsByClassName('
69         stripe-button-el')[0];
70     var regularSubmit = document.getElementById('regular-
71         submit');
72     if (price > 0) {
73         stripeSubmit.style.display = 'inline-block';
74         regularSubmit.style.display = 'none';
75     } else {
76         stripeSubmit.style.display = 'none';
77         regularSubmit.style.display = 'inline-block';
78     }
79 }
80
81 function updateGeo() {
82     var glat = document.getElementById("glat");
83     var glon = document.getElementById("glon");
84
85     glat.value = position.coords.latitude;
86     glon.value = position.coords.longitude;
87
88     alert(glat+", "+glon);
89 }
90
91 function getWikipedia() {
92     jQuery(function(127416 127416 {
93         0getJSON('http://api.geonames.org/findNearbyWikipediaJSON?
94             formatted=true&lat='+ position.coords.latitude +'&lng='

```

```

+ position.coords.longitude +'&username=username&style=
full&lang=en&wikipediaUrl&thumbnailImg', function(json)
{
84
85     for(var i = 0; i < json.geonames.length; i++)
86     {
87         127416 127416"#wikipedia").prepend('<span_style="font-
            family:_geneva,_arial,_helvetica,_sans-serif;"><br
            ><br><img_src="wikilogo.gif"><br>' + json.geonames[
            i].summary + '<br><a_href="http://'+ json.geonames[
            i].wikipediaUrl +' "_target="_blank">' + json.
            geonames[i].wikipediaUrl +'</a><br></span>');
88     }
89     }); });
90 }
91
92 function submit() {
93     // Strip hijacks the form submit, so we need to un-
94     // hijack it.
95     var form = document.getElementById('form');
96     form.submit();
97 }
98 </script>
99 <meta http-equiv="Content-Type" content="text/html;_charset
100 =UTF-8" >
101 <meta http-equiv="X-UA-Compatible" content="IE=edge" >
102 <link href="//fonts.googleapis.com/css?family=Titillium+Web
103 :300italic,400,700,400italic,600italic' rel='stylesheet
104 ' type='text/css'>
105 <link href="//fonts.googleapis.com/css?family=Titillium+Web
106 :300italic,400,700,400italic,600italic' rel='stylesheet
107 ' type='text/css'>
108 <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/
109 themes/smoothness/jquery-ui.css">
110 <script src="//code.jquery.com/jquery-1.10.2.js"></script>
111 <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></
112 script>
113 <script type="text/javascript" src="https://www.piperpal.
114 com/jquery-1.9.1.min.js"></script>
<script type="text/javascript" src="https://www.piperpal.
com/jquery.autocomplete.min.js"></script>
<script type="text/javascript" src="https://www.piperpal.
com/piperpal-autocomplete.php"></script>
<script type="text/javascript" src="https://www.piperpal.
com/piperpal-autocomplete-names.php"></script>
<script type="text/javascript" src="https://www.piperpal.
com/piperpal-autocomplete-services.php"></script>
<script type="text/javascript" src="https://www.piperpal.
com/piperpal-autocomplete-locations.php"></script>
<script type="text/javascript" src="https://www.piperpal.
com/piperpal-autocomplete-queries.php"></script>
<meta name="viewport" content="width=100%" />

```

```
115 <script>
116 $(function() {
117   $("#datepicker").datepicker();
118   $("#simple-search-tourout").datepicker();
119 });
120 </script>
121 <meta name="viewport" content="width=100%,_initial-scale
    =1.0">
122 </head>
123 <body style="background: #ffffff;" onload="document.
    getElementById('query').focus();">
124 <script type="text/javascript" src="http://maps.google.com/
    maps/api/js?sensor=true"></script>
125 <!--script type="text/javascript" src="http://maps.google.
    com/maps/api/js?sensor=false"--><!--/script-->
126 <script>
127 function success(position) {
128   var s = document.querySelector('#status');
129
130   if (s.className == 'success') {
131     // not sure why we're hitting this twice in FF, I think
132     it's to do with a cached result coming back
133     return;
134   }
135
136   s.innerHTML = '<input_type=hidden_class="
137     input_form_custom"_name=glat_value=' + position.
138     coords.latitude + ' _/><input_type=hidden_class="
139     input_form_custom"_name=glon_value=' + position.
140     coords.longitude + ' _/>';
141   s.className = 'success';
142
143   var q = document.querySelector('#status_publisher');
144
145   if (q.className == 'success') {
146     // not sure why we're hitting this twice in FF, I think
147     it's to do with a cached result coming back
148     return;
149   }
150
151   q.innerHTML = '<img_src="img/Latitude_Icon.png"_title="
152     Latitude_of_Location-aware_Content_Tag"_class="
153     icon_form"_height="36"_width="36"><input_type=text_
154     class="input_form_custom"_name=glat_size=16_value='
155     + position.coords.latitude + ' _/><br_><img_src="
156     img/Longitude_Icon.png"_title="Longitude_of_
157     Location-aware_Content_Tag"_class="icon_form"_
158     height="36"_width="36"><input_type=text_class="
159     input_form_custom"_name=glon_size=16_value=' +
160     position.coords.longitude + ' _/>';
161
162   // '<input type=text name=glat size=16 value=' +
163     position.coords.latitude + ' _/><input type=text
164     name=glon size=16 value=' + position.coords.
```

```

        longitude + ' />';
148 q.className = 'success';
149
150 var r = document.querySelector('#status_lns');
151
152 if (r.className == 'success') {
153     // not sure why we're hitting this twice in FF, I think
        it's to do with a cached result coming back
154     return;
155 }
156
157 r.innerHTML = ' <img_src="img/Latitude_Icon.png" _title
        ="Latitude_of_Location-aware_Content_Tag" _class="
        icon_form" _height="36" _width="36"><input_type=text_
        class="input_form_custom" _name=glat_size=16_value='
        + position.coords.latitude + ' _/><br_/><img_src="
        img/Longitude_Icon.png" _title="Longitude_of_
        Location-aware_Content_Tag" _class="icon_form" _
        height="36" _width="36"><input_type=text_class="
        input_form_custom" _name=glon_size=16_value=' +
        position.coords.longitude + ' _/>';
158
159 ///
160 r.className = 'success';
161
162 var mapcanvas = document.createElement('div');
163 mapcanvas.id = 'mapcanvas';
164 mapcanvas.style.height = '400px';
165 mapcanvas.style.width = '640px';
166
167 document.querySelector('article').appendChild(mapcanvas);
168
169 var latlng = new google.maps.LatLng(position.coords.
        latitude, position.coords.longitude);
170 var myOptions = {
171     zoom: 15,
172     center: latlng,
173     mapTypeControl: false,
174     navigationControlOptions: {style: google.maps.
        NavigationControlStyle.SMALL},
175     mapTypeId: google.maps.MapTypeId.ROADMAP
176 };
177 var map = new google.maps.Map(document.getElementById("
        mapcanvas"), myOptions);
178
179 var marker = new google.maps.Marker({
180     position: latlng,
181     map: map,
182     title:"You_are_here!_(at_least_within_a_+
        position.coords.accuracy+"_meter_radius)"
183 });

```

```
184
185     var locations = [
186         ['Banja_Luka', 44.766666699999990000,
187             17.1833332999999960000, 4],
188         ['Tuzla', 44.5328410000000000000, 18.670499999999947000, 5],
189         ['Zenica', 44.2034392000000000000, 17.907743200000027000,
190             3],
191         ['Sarajevo', 43.8500000000000000000, 18.2500000000000000000,
192             2],
193         ['Mostar', 43.3333333000000000000, 17.799999999999954000, 1]
194     ];
195
196 var infowindow = new google.maps.InfoWindow();
197
198 var marker, i;
199 for (i = 0; i < locations.length; i++) {
200     marker = new google.maps.Marker({
201         position: new google.maps.LatLng(locations[i][1],
202             locations[i][2]),
203         map: map
204     });
205
206 google.maps.event.addListener(marker, 'click', (function (
207     marker, i) {
208         return function () {
209             infowindow.setContent(locations[i][0]);
210             infowindow.open(map, marker);
211         }
212     })(marker, i));
213 }
214
215 function error(msg) {
216     // var s = document.querySelector('#status');
217     // s.innerHTML = typeof msg == 'string' ? msg : "failed";
218     // s.className = 'fail';
219     // console.log(arguments);
220 }
221
222 if (navigator.geolocation) {
223     navigator.geolocation.getCurrentPosition(success, error);
224 } else {
225     error('not_supported');
226 }
227
228 </script>
229
230 <center><table border='0'><tr><td valign='top' width='100%'
231     align='center'><a href="https://www.piperpal.com/"><
232     img src='/piperpal.png' alt='piperpal.com_Logo' width="
233     320" align=center/></a></td></tr>
234
235 <div class="background_form">
```

```

230 <tr><td valign='top' width='100%' align='center'><h3>Discover
    the world around you</h3><form onsubmit='updateGeo()'
    method='GET' action='https://www.piperpal.com/' id='formID'
    ><table><tr><td><center><input size="30" type="text" class=
    "input_form_custom" id="query" name="query" placeholder="
    Enter_keyword" /></center></td></tr><tr><td><select size="
    12" id="service" name="service"><option value="Restaurant">
    Restaurant</option><option value="Bar">Bar</option><option
    value="Concert">Concert</option><option value="Film">Film</
    option><option value="Books">Books</option><option value="
    Health">Health</option><option value="Clothes">Clothes</
    option><option value="Food">Food</option><option value="
    Music">Music</option><option value="Electronics">
    Electronics</option><option value="Transport">Transport</
    option><option value="Rental">Rental</option></select></td
    ><td><select size="12" name="radius" id="radius" class="
    input_form_custom"><option value='40075' selected>40075 km
    </option><option value='30000'>30000 km</option><option
    value='20000'>20000 km</option><option value='10000'>10000
    km</option><option value='9000'>9000 km</option><option
    value='8000'>8000 km</option><option value='7000'>7000 km</
    option><option value='6000'>6000 km</option><option value='
    5000'>5000 km</option><option value='4000'>4000 km</option
    ><option value='3000'>3000 km</option><option value='2500'
    >2500 km</option><option value='2000'>2000 km</option><
    option value='1500'>1500 km</option><option value='1250'
    >1250 km</option><option value='1000'>1000 km</option><
    option value='750'>750 km</option><option value='500'>500
    km</option><option value='250'>250 km</option><option value
    ='100'>100 km</option><option value='50'>50 km</option><
    option value='25'>25 km</option><option value='10'>10 km</
    option><option value='5'>5 km</option><option value='2'>2
    km</option><option value='1'>1 km</option></select></td><td
    >&nbsp;   </td><td><input type="submit" id="search" name="
    search" value="Go" /></td></tr></table><span id='status'><
    input type='hidden' name='glat' /><input type='hidden' name
    ='glon' /></span>
231 </form><br>
232 <script language="javascript" type="text/javascript">
233 var glat_var = position.coords.latitude;
234 </script>
235 <a href="location.html" onclick="location.href=this.href+'?glat
    =' +glat_var; retur
236 n_false;">Link</a>
237 <script type="text/javascript" src="https://api.piperpal.com/
    location/json.php?s
238 ervice=Books&glat=' _+_position.coords.longitude+_+'&glon=' _+_
    position.coords.lon
239 gitude+_+' "></script>
240 <script language="JavaScript">
241 var obj = JSON.parse(locations);
242 for (i=0; i < obj.locations.length; i++) {
243     document.write("<h1>" + obj.locations[i].name + "</h1><
    h2><a href=' " + obj.lo

```

```

244         cations[i].location + "'>" + obj.locations[i].
           location + "</a>_" + obj.location
245         s[i].distance + ")</h2><h3>" + "_" + obj.
           locations[i].service + "_" + "</h3>\n")
246     ;
247     <!--document.write("<p>" + obj.locations[i].distance
           + "</p><form_method='GET
248     _____'_action='/search.php'><input_type='text'_'
           name='name'_'placeholder='_'_value='_' +
249         obj.locations[i].name + "'/><input_type='
           hidden'_'name='glat'_'value='_' + obj.loca
250         tions[i].glat + "'/><input_type='hidden'_'
           name='glon'_'value='_' + obj.locations[i
251         ].glon + "'/><span_id='geopher'></span><
           select_name='service'><option_value='Foo
252     _____d'>Food</option><option_selected_value='
           Search'>Search</option></select><input_t
253     _____ype='submit'_'value='Search'_'/><br_/>"); -->
254 }
255 </script>
256 <location name="Berkeley" location="http://berkeley.edu/"
           service="Books" glat="
257 59.9340451" glon="10.7481188" notbefore="2020-03-30_12:00:00"
           notafter="2020-03-
258 31_12:00:00" paid="50" />
259 <location name="Palo_Alto" lat="37.4375596" lon="
           -122.11922789999998" href="http
260 ://berkeley.edu/">
261 <cript type="text/javascript" src="https://api.piperpal.com/
           location/json.php?se
262 rvice=Books&glat='_'_+position.coords.longitude+_'&glon='_'_+
           position.coords.long
263 itude+_' "></script>
264 <script language="JavaScript">
265 var obj = JSON.parse(locations);
266 for (i=0; i < obj.locations.length; i++) {
267     document.write("<h1>" + obj.locations[i].name + "</h1><
           h2><a_href='_' + obj.lo
268         cations[i].location + "'>" + obj.locations[i].
           location + "</a>_" + obj.location
269         s[i].distance + ")</h2><h3>" + "_" + obj.
           locations[i].service + "_" + "</h3>\n")
270     ;
271     <!--document.write("<p>" + obj.locations[i].distance
           + "</p><form_method='GET
272     _____'_action='/search.php'><input_type='text'_'
           name='name'_'placeholder='_'_value='_' +
273         obj.locations[i].name + "'/><input_type='
           hidden'_'name='glat'_'value='_' + obj.loca
274         tions[i].glat + "'/><input_type='hidden'_'
           name='glon'_'value='_' + obj.locations[i
275         ].glon + "'/><span_id='geopher'></span><
           select_name='service'><option_value='Foo

```

```

276 .....d'>Food</option><option_selected_value='
      Search'>Search</option></select><input_t
277 .....ype='submit' _value=' Search' _/><br_>"); -->
278 }
279 </script>
280 <location name="Berkeley" location="http://berkeley.edu/"
      service="Books" glat="
281 59.9340451" glon="10.7481188" notbefore="2020-03-30_12:00:00"
      notafter="2020-03-
282 31_12:00:00" paid="50" />
283 <location name="Palo_Alto" lat="37.4375596" lon="
      -122.11922789999998" href="http
284 ://berkeley.edu/">
285 <p>Check out <a href="https://www.geopher.com/">Geopher</a> and
      <a href="http://piperpal.com/">Piperpal</a>.</p>
286 </location>
287 </body>
288 </html>

```

5.3 Source:https://www.piperpal.com/location/berkeley/index.html

```

1 <html>
2   <head>
3     <meta property="al:android:app_name" content="Piperpal" />
4     <meta property="al:android:package" content="com.piperpal.
      api.android" />
5     <meta property="al:android:url" content="https://www.
      piperpal.com/Android" />
6     <!--[if IE]><![endif]-->
7     <meta charset="utf-8">
8
9     <!--[if IE 8]>
10    <link href="/css/common_o2.1_ie8-91981
      ea8f3932c01fab677a25d869e49.css" media="all" rel="
      stylesheet" type="text/css" />
11    <![endif]-->
12    <!--[if !(IE 8)]><!-->
13    <link href="/css/common_o2.1-858
      f47868a8d0e12dfa7eb60fa84fb17.css" media="all" rel="
      stylesheet" type="text/css" />
14    <!--<![endif]-->
15
16    <!--[if lt IE 9]>
17    <link href="/css/airglyphs-ie8-9
      f053f042e0a4f621cbc0cd75a0a520c.css" media="all"
      rel="stylesheet" type="text/css" />

```



```

18         <![endif]-->
19
20     <link href="/css/main-f3fcc4027aaa2c83f08ald51ae189e3b.css"
21         media="screen" rel="stylesheet" type="text/css" />
22     <!--[if IE 7]>
23         <link href="/css/pl_ie_7-0
24             ab7be89d3999d751ac0e89c44a0ab50.css" media="screen"
25             rel="stylesheet" type="text/css" />
26     <![endif]-->
27     <!--[if IE 6]>
28         <link href="/css/pl_ie_6-7
29             d6alfd8fe9fdflce357f6b864c83979.css" media="screen"
30             rel="stylesheet" type="text/css" />
31     <![endif]-->
32     <script type="text/javascript" src="https://www.piperpal.
33         com/piperpal-autocomplete-tours.php"></script>
34     <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/
35         themes/smoothness/jquery-ui.css">
36     <script src="//code.jquery.com/jquery-1.10.2.js"></script>
37     <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></
38         script>
39     <meta name="viewport" content="user-scalable=no, _initial-
40         scale=1.0, _maximum-scale=1.0, _width=device-width">
41     <link rel="dns-prefetch" href="//maps.googleapis.com">
42     <link rel="dns-prefetch" href="//maps.gstatic.com">
43     <link rel="dns-prefetch" href="//mts0.googleapis.com">
44     <link rel="dns-prefetch" href="//fonts.googleapis.com">
45     <link rel="dns-prefetch" href="//www.piperpal.com">
46     <title>Location Tags in Berkeley, CA</title>
47     <link href="my_style_form.css" type="text/css" rel="
48         stylesheet" />
49     <link href='http://fonts.googleapis.com/css?family=
50         Titillium+Web:700' rel='stylesheet' type='text/css'>
51     <link href='http://fonts.googleapis.com/css?family=
52         Titillium+Web' rel='stylesheet' type='text/css'>
53 </head>
54 <body>
55 <h1>Location Tags in Berkeley, CA</h1>
56 <script type="text/javascript" src="https://api.piperpal.com/
57     location/json.php?service=Books&glat=37.4375596&glon
58     =-122.11922789999998"></script>
59 <script language="JavaScript">
60 var obj = JSON.parse(locations);
61 for (i=0; i < obj.locations.length; i++) {
62     document.write("<h1>" + obj.locations[i].name + "</h1><h2><a
63         href=' " + obj.locations[i].location + "'>" + obj.
64         locations[i].location + "</a>_" + obj.locations[i].
65         distance + ")</h2><h3>" + "_" + obj.locations[i].service
66         + "_" + "</h3>\n");
67     <!--document.write("<p>" + obj.locations[i].distance + "</p
68         ><form_method='GET' _action='/search.php'><input_type='
69         text' _name='name' _placeholder='' _value=' " + obj.
70         locations[i].name + "' /><input_type='hidden' _name=' glat'
71         _value=' " + obj.locations[i].glat + "' _/><input_type='

```

```

        hidden'_name='glon'_value=' " + obj.locations[i].glon + "
        ' /><span_id='geopher'></span><select_name='service'><
        option_value='Food'>Food</option><option_selected_value
        ='Search'>Search</option></select><input_type='submit'_
        value='Search'_/><br_>"); -->
50 }
51 </script>
52 <location name="Berkeley" location="http://berkeley.edu/"
    service="Books" glat="59.9340451" glon="10.7481188"
    notbefore="2020-03-30_12:00:00" notafter="2020-03-31_
    12:00:00" paid="50" />
53 <location name="Palo_Alto" lat="37.4375596" lon="
    -122.119227899999998" href="http://berkeley.edu/">
54 <p>Check out <a href="https://www.geopher.com/">Geopher</a> and
    <a href="http://piperpal.com/">Piperpal</a>.</p>
55 </location>
56 </body>
57 </html>

```

5.4 Source: https://www.piperpal.com/location/copenhagen/index.html

```

1 <html>
2   <head>
3     <meta property="al:android:app_name" content="Piperpal" />
4     <meta property="al:android:package" content="com.piperpal.
5       api.android" />
6     <meta property="al:android:url" content="https://www.
7       piperpal.com/Android" />
8     <!--[if IE]><![endif]-->
9     <meta charset="utf-8">
10
11    <!--[if IE 8]>
12    <link href="/css/common_o2.1_ie8-91981
13      ea8f3932c01fab677a25d869e49.css" media="all" rel="
14      stylesheet" type="text/css" />
15    <![endif]-->
16    <!--[if !(IE 8)]><!-->
17    <link href="/css/common_o2.1-858
18      f47868a8d0e12dfa7eb60fa84fb17.css" media="all" rel="
19      stylesheet" type="text/css" />
20    <!--<![endif]-->
21
22    <!--[if lt IE 9]>
23    <link href="/css/airglyphs-ie8-9
24      f053f042e0a4f621cbc0cd75a0a520c.css" media="all"
25      rel="stylesheet" type="text/css" />

```

```

18         <![endif]-->
19
20     <link href="/css/main-f3fcc4027aaa2c83f08ald51ae189e3b.css"
21         media="screen" rel="stylesheet" type="text/css" />
22     <!--[if IE 7]>
23         <link href="/css/pl_ie_7-0
24             ab7be89d3999d751ac0e89c44a0ab50.css" media="screen"
25             rel="stylesheet" type="text/css" />
26     <![endif]-->
27     <!--[if IE 6]>
28         <link href="/css/pl_ie_6-7
29             d6alfd8fe9fdflce357f6b864c83979.css" media="screen"
30             rel="stylesheet" type="text/css" />
31     <![endif]-->
32     <script type="text/javascript" src="https://www.piperpal.
33         com/piperpal-autocomplete-tours.php"></script>
34     <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/
35         themes/smoothness/jquery-ui.css">
36     <script src="//code.jquery.com/jquery-1.10.2.js"></script>
37     <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></
38         script>
39     <meta name="viewport" content="user-scalable=no, _initial-
40         scale=1.0, _maximum-scale=1.0, _width=device-width">
41     <link rel="dns-prefetch" href="//maps.googleapis.com">
42     <link rel="dns-prefetch" href="//maps.gstatic.com">
43     <link rel="dns-prefetch" href="//mts0.googleapis.com">
44     <link rel="dns-prefetch" href="//fonts.googleapis.com">
45     <link rel="dns-prefetch" href="//www.piperpal.com">
46     <title>Location Tags in Copenhagen, DK</title>
47     <link href="my_style_form.css" type="text/css" rel="
48         stylesheet" />
49     <link href='http://fonts.googleapis.com/css?family=
50         Titillium+Web:700' rel='stylesheet' type='text/css'>
51     <link href='http://fonts.googleapis.com/css?family=
52         Titillium+Web' rel='stylesheet' type='text/css'>
53 </head>
54 <body>
55 <h1>Location Tags in Copenhagen, DK</h1>
56 <script type="text/javascript" src="https://api.piperpal.com/
57     location/json.php?service=Books&glat=55.6828273&glon
58     =12.6082921"></script>
59 <script language="JavaScript">
60 var obj = JSON.parse(locations);
61 for (i=0; i < obj.locations.length; i++) {
62     document.write("<h1>" + obj.locations[i].name + "</h1><h2><a
63         _href=' " + obj.locations[i].location + "'>" + obj.
64         locations[i].location + "</a>_" + obj.locations[i].
65         distance + ")</h2><h3>" + "_" + obj.locations[i].service
66         + "_" + "</h3>\n");
67     <!--document.write("<p>" + obj.locations[i].distance + "</p
68         ><form_method='GET' _action='/search.php'><input_type='
69         text' _name='name' _placeholder='' _value=' " + obj.
70         locations[i].name + "' /><input_type='hidden' _name=' glat'
71         _value=' " + obj.locations[i].glat + "' _/><input_type='

```

```

    hidden'_name='glon'_value=' " + obj.locations[i].glon + "
    ' /><span_id='geopher'></span><select_name='service'><
    option_value='Food'>Food</option><option_selected_value
    ='Search'>Search</option></select><input_type='submit'_
    value='Search'_/><br_>"); -->
50 }
51 </script>
52 <location name="Copenhagen" location="http://berkeley.edu/"
    service="Books" glat="59.9340451" glon="10.7481188"
    notbefore="2020-03-30_12:00:00" notafter="2020-03-31_
    12:00:00" paid="50" />
53 <location name="Palo_Alto" lat="37.4375596" lon="
    -122.119227899999998" href="http://berkeley.edu/">
54 <p>Check out <a href="https://www.geopher.com/">Geopher</a> and
    <a href="http://piperpal.com/">Piperpal</a>.</p>
55 </location>
56 </body>
57 </html>

```

5.5 Source: https://www.piperpal.com/location/london/index.html

```

1 <html>
2   <head>
3     <meta property="al:android:app_name" content="Piperpal" />
4     <meta property="al:android:package" content="com.piperpal.
5       api.android" />
6     <meta property="al:android:url" content="https://www.
7       piperpal.com/Android" />
8     <!--[if IE]><![endif]-->
9     <meta charset="utf-8">
10
11    <!--[if IE 8]>
12    <link href="/css/common_o2.1_ie8-91981
13      ea8f3932c01fab677a25d869e49.css" media="all" rel="
14        stylesheet" type="text/css" />
15    <![endif]-->
16    <!--[if !(IE 8)]><!-->
17    <link href="/css/common_o2.1-858
18      f47868a8d0e12dfa7eb60fa84fb17.css" media="all" rel="
19        stylesheet" type="text/css" />
20    <!--<![endif]-->
21
22    <!--[if lt IE 9]>
23    <link href="/css/airglyphs-ie8-9
24      f053f042e0a4f621cbc0cd75a0a520c.css" media="all"
25      rel="stylesheet" type="text/css" />

```

```

18         <![endif]-->
19
20     <link href="/css/main-f3fcc4027aaa2c83f08ald51ae189e3b.css"
21         media="screen" rel="stylesheet" type="text/css" />
22 <!--[if IE 7]>
23     <link href="/css/pl_ie_7-0
24         ab7be89d3999d751ac0e89c44a0ab50.css" media="screen"
25         rel="stylesheet" type="text/css" />
26 <![endif]-->
27 <!--[if IE 6]>
28     <link href="/css/pl_ie_6-7
29         d6alfd8fe9fdflce357f6b864c83979.css" media="screen"
30         rel="stylesheet" type="text/css" />
31 <![endif]-->
32 <script type="text/javascript" src="https://www.piperpal.
33     com/piperpal-autocomplete-tours.php"></script>
34 <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/
35     themes/smoothness/jquery-ui.css">
36 <script src="//code.jquery.com/jquery-1.10.2.js"></script>
37 <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></
38     script>
39 <meta name="viewport" content="user-scalable=no, _initial-
40     scale=1.0, _maximum-scale=1.0, _width=device-width">
41 <link rel="dns-prefetch" href="//maps.googleapis.com">
42 <link rel="dns-prefetch" href="//maps.gstatic.com">
43 <link rel="dns-prefetch" href="//mts0.googleapis.com">
44 <link rel="dns-prefetch" href="//fonts.googleapis.com">
45 <link rel="dns-prefetch" href="//www.piperpal.com">
46 <title>Location Tags in London, United Kingdom</title>
47 <link href="my_style_form.css" type="text/css" rel="
48     stylesheet" />
49 <link href='http://fonts.googleapis.com/css?family=
50     Titillium+Web:700' rel='stylesheet' type='text/css'>
51 <link href='http://fonts.googleapis.com/css?family=
52     Titillium+Web' rel='stylesheet' type='text/css'>
53 </head>
54 <body>
55 <h1>Location Tags in London, United Kingdom</h1>
56 <script type="text/javascript" src="https://api.piperpal.com/
57     location/json.php?service=Books&glat=51.5073219&glon
58     ==-0.1276474"></script>
59 <script language="JavaScript">
60 var obj = JSON.parse(locations);
61 for (i=0; i < obj.locations.length; i++) {
62     document.write("<h1>" + obj.locations[i].name + "</h1><h2><a
63         href=' " + obj.locations[i].location + "'>" + obj.
64         locations[i].location + "</a>_" + obj.locations[i].
65         distance + ")</h2><h3>" + "_" + obj.locations[i].service
66         + "_" + "</h3>\n");
67 <!--document.write("<p>" + obj.locations[i].distance + "</p
68         ><form_method='GET' _action='/search.php'><input_type='
69         text' _name='name' _placeholder='' _value=' " + obj.
70         locations[i].name + "' /><input_type='hidden' _name=' glat'
71         _value=' " + obj.locations[i].glat + "' _/><input_type='

```

```

        hidden'_name='glon'_value=' " + obj.locations[i].glon + "
        ' /><span_id='geopher'></span><select_name='service'><
        option_value='Food'>Food</option><option_selected_value
        ='Search'>Search</option></select><input_type='submit'_
        value='Search'_/><br_>"); -->
50 }
51 </script>
52 <location name="Berkeley" location="http://berkeley.edu/"
        service="Books" glat="59.9340451" glon="10.7481188"
        notbefore="2020-03-30_12:00:00" notafter="2020-03-31_
        12:00:00" paid="50" />
53 <location name="Palo_Alto" lat="37.4375596" lon="
        -122.119227899999998" href="http://berkeley.edu/">
54 <p>Check out <a href="https://www.geopher.com/">Geopher</a> and
        <a href="http://piperpal.com/">Piperpal</a>.</p>
55 </location>
56 </body>
57 </html>

```

5.6 Source:https://www.piperpal.com/location/nyc/index.html

```

1 <html>
2   <head>
3     <meta property="al:android:app_name" content="Piperpal" />
4     <meta property="al:android:package" content="com.piperpal.
5       api.android" />
6     <meta property="al:android:url" content="https://www.
7       piperpal.com/Android" />
8     <!--[if IE]><![endif]-->
9     <meta charset="utf-8">
10
11    <!--[if IE 8]>
12    <link href="/css/common_o2.1_ie8-91981
13      ea8f3932c01fab677a25d869e49.css" media="all" rel="
14      stylesheet" type="text/css" />
15    <![endif]-->
16    <!--[if !(IE 8)]><!-->
17    <link href="/css/common_o2.1-858
18      f47868a8d0e12dfa7eb60fa84fb17.css" media="all" rel="
19      stylesheet" type="text/css" />
20    <!--<![endif]-->
21
22    <!--[if lt IE 9]>
23    <link href="/css/airglyphs-ie8-9
24      f053f042e0a4f621cbc0cd75a0a520c.css" media="all"
25      rel="stylesheet" type="text/css" />

```

```

18         <![endif]-->
19
20     <link href="/css/main-f3fcc4027aaa2c83f08ald51ae189e3b.css"
21         media="screen" rel="stylesheet" type="text/css" />
22     <!--[if IE 7]>
23         <link href="/css/pl_ie_7-0
24             ab7be89d3999d751ac0e89c44a0ab50.css" media="screen"
25             rel="stylesheet" type="text/css" />
26     <![endif]-->
27     <!--[if IE 6]>
28         <link href="/css/pl_ie_6-7
29             d6alfd8fe9fdflce357f6b864c83979.css" media="screen"
30             rel="stylesheet" type="text/css" />
31     <![endif]-->
32     <script type="text/javascript" src="https://www.piperpal.
33         com/piperpal-autocomplete-tours.php"></script>
34     <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/
35         themes/smoothness/jquery-ui.css">
36     <script src="//code.jquery.com/jquery-1.10.2.js"></script>
37     <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></
38         script>
39     <meta name="viewport" content="user-scalable=no, _initial-
40         scale=1.0, _maximum-scale=1.0, _width=device-width">
41     <link rel="dns-prefetch" href="//maps.googleapis.com">
42     <link rel="dns-prefetch" href="//maps.gstatic.com">
43     <link rel="dns-prefetch" href="//mts0.googleapis.com">
44     <link rel="dns-prefetch" href="//fonts.googleapis.com">
45     <link rel="dns-prefetch" href="//www.piperpal.com">
46     <title>Location Tags in New York City, NY</title>
47     <link href="my_style_form.css" type="text/css" rel="
48         stylesheet" />
49     <link href='http://fonts.googleapis.com/css?family=
50         Titillium+Web:700' rel='stylesheet' type='text/css'>
51     <link href='http://fonts.googleapis.com/css?family=
52         Titillium+Web' rel='stylesheet' type='text/css'>
53 </head>
54 <body>
55 <h1>Location Tags in New York City, NY</h1>
56 <script type="text/javascript" src="https://api.piperpal.com/
57     location/json.php?service=Books&glat=40.6399278&glon
58     ==-73.7786925"></script>
59 <script language="JavaScript">
60 var obj = JSON.parse(locations);
61 for (i=0; i < obj.locations.length; i++) {
62     document.write("<h1>" + obj.locations[i].name + "</h1><h2><a
63         _href=' " + obj.locations[i].location + "'>" + obj.
64         locations[i].location + "</a>_" + obj.locations[i].
65         distance + ")</h2><h3>" + "_" + obj.locations[i].service
66         + "_" + "</h3>\n");
67     <!--document.write("<p>" + obj.locations[i].distance + "</p
68         ><form_method='GET' _action='/search.php'><input_type='
69         text' _name='name' _placeholder='' _value=' " + obj.
70         locations[i].name + "' /><input_type='hidden' _name='glat'
71         _value=' " + obj.locations[i].glat + "' _/><input_type='

```

```

        hidden'_name='glon'_value=' " + obj.locations[i].glon + "
        ' /><span_id='geopher'></span><select_name='service'><
        option_value='Food'>Food</option><option_selected_value
        ='Search'>Search</option></select><input_type='submit'_
        value='Search'_/><br_>"); -->
50 }
51 </script>
52 <location name="Berkeley" location="http://berkeley.edu/"
        service="Books" glat="59.9340451" glon="10.7481188"
        notbefore="2020-03-30_12:00:00" notafter="2020-03-31_
        12:00:00" paid="50" />
53 <location name="Palo_Alto" lat="37.4375596" lon="
        -122.119227899999998" href="http://berkeley.edu/">
54 <p>Check out <a href="https://www.geopher.com/">Geopher</a> and
        <a href="http://piperpal.com/">Piperpal</a>.</p>
55 </location>
56 </body>
57 </html>

```

5.7 Source: <https://www.piperpal.com/location/oslo/index.html>

```

1 <html>
2   <head>
3     <meta property="al:android:app_name" content="Piperpal" />
4     <meta property="al:android:package" content="com.piperpal.
5       api.android" />
6     <meta property="al:android:url" content="https://www.
7       piperpal.com/Android" />
8     <!--[if IE]><![endif]-->
9     <meta charset="utf-8">
10
11    <!--[if IE 8]>
12    <link href="/css/common_o2.1_ie8-91981
13      ea8f3932c01fab677a25d869e49.css" media="all" rel="
14        stylesheet" type="text/css" />
15    <![endif]-->
16    <!--[if !(IE 8)]><!-->
17    <link href="/css/common_o2.1-858
18      f47868a8d0e12dfa7eb60fa84fb17.css" media="all" rel="
19        stylesheet" type="text/css" />
20    <!--<![endif]-->
21
22    <!--[if lt IE 9]>
23    <link href="/css/airglyphs-ie8-9
24      f053f042e0a4f621cbc0cd75a0a520c.css" media="all"
25      rel="stylesheet" type="text/css" />

```



```

18         <![endif]-->
19
20     <link href="/css/main-f3fcc4027aaa2c83f08ald51ae189e3b.css"
21         media="screen" rel="stylesheet" type="text/css" />
22     <!--[if IE 7]>
23         <link href="/css/pl_ie_7-0
24             ab7be89d3999d751ac0e89c44a0ab50.css" media="screen"
25             rel="stylesheet" type="text/css" />
26     <![endif]-->
27     <!--[if IE 6]>
28         <link href="/css/pl_ie_6-7
29             d6alfd8fe9fdflce357f6b864c83979.css" media="screen"
30             rel="stylesheet" type="text/css" />
31     <![endif]-->
32     <script type="text/javascript" src="https://www.piperpal.
33         com/piperpal-autocomplete-tours.php"></script>
34     <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/
35         themes/smoothness/jquery-ui.css">
36     <script src="//code.jquery.com/jquery-1.10.2.js"></script>
37     <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></
38         script>
39     <meta name="viewport" content="user-scalable=no, _initial-
40         scale=1.0, _maximum-scale=1.0, _width=device-width">
41     <link rel="dns-prefetch" href="//maps.googleapis.com">
42     <link rel="dns-prefetch" href="//maps.gstatic.com">
43     <link rel="dns-prefetch" href="//mts0.googleapis.com">
44     <link rel="dns-prefetch" href="//fonts.googleapis.com">
45     <link rel="dns-prefetch" href="//www.piperpal.com">
46     <title>Location Tags in Oslo, Norway</title>
47     <link href="my_style_form.css" type="text/css" rel="
48         stylesheet" />
49     <link href='http://fonts.googleapis.com/css?family=
50         Titillium+Web:700' rel='stylesheet' type='text/css'>
51     <link href='http://fonts.googleapis.com/css?family=
52         Titillium+Web' rel='stylesheet' type='text/css'>
53 </head>
54 <body>
55 <h1>Location Tags in Oslo, Norway</h1>
56 <script type="text/javascript" src="https://api.piperpal.com/
57     location/json.php?service=Books&glat=60&glon=10"></script>
58 <script language="JavaScript">
59 var obj = JSON.parse(locations);
60 for (i=0; i < obj.locations.length; i++) {
61     document.write("<h1>" + obj.locations[i].name + "</h1><h2><a
62         href=' " + obj.locations[i].location + "'>" + obj.
63         locations[i].location + "</a>_" + obj.locations[i].
64         distance + ")</h2><h3>" + "_" + obj.locations[i].service
65         + "_" + "</h3>\n");
66     <!--document.write("<p>" + obj.locations[i].distance + "</p>
67         ><form_method='GET' _action='/search.php'><input_type='
68         text' _name='name' _placeholder='' _value=' " + obj.
69         locations[i].name + "' /><input_type='hidden' _name='glat'
70         _value=' " + obj.locations[i].glat + "' /><input_type='
71         hidden' _name='glon' _value=' " + obj.locations[i].glon + "

```

```

    ' /><span_id=' geopher' ></span><select_name=' service' ><
    option_value=' Food' >Food</option><option_selected_value
    =' Search' >Search</option></select><input_type=' submit' _
    value=' Search' _/><br_ />"); -->
50 }
51 </script>
52 <location name="Berkeley" location="http://berkeley.edu/"
    service="Books" glat="59.9340451" glon="10.7481188"
    notbefore="2020-03-30_12:00:00" notafter="2020-03-31_
    12:00:00" paid="50" />
53 <location name="Palo_Alto" lat="37.4375596" lon="
    -122.119227899999998" href="http://berkeley.edu/">
54 <p>Check out <a href="https://www.geopher.com/">Geopher</a> and
    <a href="http://piperpal.com/">Piperpal</a>.</p>
55 </location>
56 </body>
57 </html>

```

5.8 Source: https://www.piperpal.com/location/paris/index.html

```

1 <html>
2   <head>
3     <meta property="al:android:app_name" content="Piperpal" />
4     <meta property="al:android:package" content="com.piperpal.
    api.android" />
5     <meta property="al:android:url" content="https://www.
    piperpal.com/Android" />
6     <!--[if IE]><![endif]-->
7     <meta charset="utf-8">
8
9     <!--[if IE 8]>
10    <link href="/css/common_o2.1_ie8-91981
    ea8f3932c01fab677a25d869e49.css" media="all" rel="
    stylesheet" type="text/css" />
11    <![endif]-->
12    <!--[if !(IE 8)]><!-->
13    <link href="/css/common_o2.1-858
    f47868a8d0e12dfa7eb60fa84fb17.css" media="all" rel="
    stylesheet" type="text/css" />
14    <!--<![endif]-->
15
16    <!--[if lt IE 9]>
17    <link href="/css/airglyphs-ie8-9
    f053f042e0a4f621cbc0cd75a0a520c.css" media="all"
    rel="stylesheet" type="text/css" />
18    <![endif]-->

```

```

19 |
20 | <link href="/css/main-f3fcc4027aaa2c83f08a1d51ae189e3b.css"
21 |     media="screen" rel="stylesheet" type="text/css" />
22 | <!--[if IE 7]>
23 |     <link href="/css/pl_ie_7-0
24 |         ab7be89d3999d751ac0e89c44a0ab50.css" media="screen"
25 |         rel="stylesheet" type="text/css" />
26 |     <![endif]-->
27 | <!--[if IE 6]>
28 |     <link href="/css/pl_ie_6-7
29 |         d6a1fd8fe9fdflce357f6b864c83979.css" media="screen"
30 |         rel="stylesheet" type="text/css" />
31 |     <![endif]-->
32 | <script type="text/javascript" src="https://www.piperpal.
33 |     com/piperpal-autocomplete-tours.php"></script>
34 | <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/
35 |     themes/smoothness/jquery-ui.css">
36 | <script src="//code.jquery.com/jquery-1.10.2.js"></script>
37 | <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></
38 |     script>
39 | <meta name="viewport" content="user-scalable=no, _initial-
40 |     scale=1.0, _maximum-scale=1.0, _width=device-width">
41 | <link rel="dns-prefetch" href="//maps.googleapis.com">
42 | <link rel="dns-prefetch" href="//maps.gstatic.com">
43 | <link rel="dns-prefetch" href="//mts0.googleapis.com">
44 | <link rel="dns-prefetch" href="//fonts.googleapis.com">
45 | <link rel="dns-prefetch" href="//www.piperpal.com">
46 | <title>Location Tags in Paris, France</title>
47 | <link href="my_style_form.css" type="text/css" rel="
48 |     stylesheet" />
49 | <link href='http://fonts.googleapis.com/css?family=
50 |     Titillium+Web:700' rel='stylesheet' type='text/css'>
51 | <link href='http://fonts.googleapis.com/css?family=
52 |     Titillium+Web' rel='stylesheet' type='text/css'>
53 | </head>
54 | <body>
55 | <h1>Location Tags in Paris, France</h1>
56 | <script type="text/javascript" src="https://api.piperpal.com/
57 |     location/json.php?service=Books&glat=48.8566969&glon
58 |     =2.3514616"></script>
59 | <script language="JavaScript">
60 | var obj = JSON.parse(locations);
61 | for (i=0; i < obj.locations.length; i++) {
62 |     document.write("<h1>" + obj.locations[i].name + "</h1><h2><a
63 |         _href=' " + obj.locations[i].location + "'>" + obj.
64 |         locations[i].location + "</a>_" + obj.locations[i].
65 |         distance + ")</h2><h3>" + "_" + obj.locations[i].service
66 |         + "_" + "</h3>\n");
67 | <!--document.write("<p>" + obj.locations[i].distance + "</p>
68 | ><form_method='GET' _action='/search.php'><input_type='
69 |     text' _name='name' _placeholder='' _value=' " + obj.
70 |     locations[i].name + "' /><input_type='hidden' _name='glat'
71 |     _value=' " + obj.locations[i].glat + "' _/><input_type='
72 |     hidden' _name='glon' _value=' " + obj.locations[i].glon + "

```

```
    ' /><span_id=' geopher' ></span><select_name=' service' ><
    option_value=' Food' >Food</option><option_selected_value
    =' Search' >Search</option></select><input_type=' submit' _
    value=' Search' _/><br_ />"); -->
50 }
51 </script>
52 <location name="Berkeley" location="http://berkeley.edu/"
    service="Books" glat="59.9340451" glon="10.7481188"
    notbefore="2020-03-30_12:00:00" notafter="2020-03-31_
    12:00:00" paid="50" />
53 <location name="Palo_Alto" lat="37.4375596" lon="
    -122.11922789999998" href="http://berkeley.edu/">
54 <p>Check out <a href="https://www.geopher.com/">Geopher</a> and
    <a href="http://piperpal.com/">Piperpal</a>.</p>
55 </location>
56 </body>
57 </html>
```

Chapter 6

Location API on World Wide Web – api.piperpal.com/location

6.1 Source: <https://api.piperpal.com/location/json.php>

```
1 <?php
2 $db = mysqli_connect("piperpal.mysql.domeneshop.no","piperpal",
3     "xxxxxxxx","piperpal");
4 // mysqli_set_charset($db,"utf8");
5 if (isset($_GET['name'])) {
6     $query = "SELECT DISTINCT id,name,service,location,modified,
7         created,glat,glon,paid,token,type,email,111.045*DEGREES(
8         ACOS(COS(RADIANS(latpoint))*COS(RADIANS(glat))*COS(
9         RADIANS(longpoint)-RADIANS(glon))+SIN(RADIANS(latpoint))*
10        SIN(RADIANS(glat)))) AS distance_in_km FROM piperpal JOIN
11        (SELECT " . $_GET['glat'] . " AS latpoint, " . $_GET['
12        glon'] . " AS longpoint) AS p ON 1=1 WHERE service=" .
13        $_GET['service'] . " AND name=" . $_GET['name'] . "
14        ORDER BY distance_in_km";
15 } else {
16     if (isset($_GET['service'])) {
17         $query = "SELECT DISTINCT id,name,service,location,
18             modified,created,glat,glon,paid,token,type,email
19             ,111.045*DEGREES(ACOS(COS(RADIANS(latpoint))*COS(
20             RADIANS(glat))*COS(RADIANS(longpoint)-RADIANS(glon)
21             )+SIN(RADIANS(latpoint))*SIN(RADIANS(glat)))) AS
22             distance_in_km FROM piperpal JOIN (SELECT " .
23             $_GET['glat'] . " AS latpoint, " . $_GET['glon'] .
24             " AS longpoint) AS p ON 1=1 WHERE service=" .
25             $_GET['service'] . " ORDER BY distance_in_km";
26     } else {
```

```

10     $query = "SELECT DISTINCT id, name, service, location,
11             modified, created, glat, glon, paid, token, type, email
12             , 111.045*DEGREES (ACOS (COS (RADIANS (latpoint)) *COS (
13             RADIANS (glat)) *COS (RADIANS (longpoint) -RADIANS (glon)
14             ) +SIN (RADIANS (latpoint)) *SIN (RADIANS (glat)))) AS
15             distance_in_km FROM piperpal JOIN (SELECT
16             $_GET['glat'] . "AS latpoint, " . $_GET['glon'] .
17             "AS longpoint) AS p ON 1=1 ORDER BY
18             distance_in_km";
19     }
20 }
21 $result = $db->query($query);
22 // print $query;
23 $num_coords = mysqli_num_rows($result);
24 if ($num_coords == 0) {
25     print '<h3>' . $_GET['service'] . '</h3><ul><li><a href="http
26         ://piperpal.com/cft/?location=' . $_GET['service'] . '&
27         service=' . basename($_SERVER['HTTP_REFERER']) . '">New</
28         a></li><li>Upvote</li><li>Comment</li><li>Stamp</li></ul>
29         </ul>';
30 // header("Location: http://piperpal.com/");
31 } else {
32     // print "$(function(){\n  var locations = [\n";
33     print "var locations = {\n"locations\":\n";
34     $count = 0;
35     // print "<h1>" . $_GET['service'] . "</h1>";
36     while($object = mysqli_fetch_object($result)) {
37         $count++;
38         if ($count == $num_coords) {
39             print '{"id":' . $object->id . ', "name":' . $object
40                 ->name . ', "service":' . $object->service . ', "
41                 location":' . $object->location . ', "modified":'
42                 . $object->modified . ', "created":' . $object->
43                 created . ', "glat":' . $object->glat . ', "glon
44                 ":' . $object->glon . ', "paid":' . $object->
45                 paid . ', "token":' . $object->token . ', "type":
46                 ' . $object->type . ', "distance":' . $object->
47                 distance_in_km . ', "email":' . $object->email . '
48                 }';
49         } else {
50             print '{"id":' . $object->id . ', "name":' . $object
51                 ->name . ', "service":' . $object->service . ', "
52                 location":' . $object->location . ', "modified":'
53                 . $object->modified . ', "created":' . $object->
54                 created . ', "glat":' . $object->glat . ', "glon
55                 ":' . $object->glon . ', "paid":' . $object->
56                 paid . ', "token":' . $object->token . ', "type":
57                 ' . $object->type . ', "distance":' . $object->
58                 distance_in_km . ', "email":' . $object->email . '
59                 },';
60         }
61     }
62     print "]]';\n";
63 }

```

```
34 | ?>
```

6.2 Source: <https://api.piperpal.com/location/pull.php>

```
1 <?php
2
3 $fp = fopen("/home/4/p/piperpal/data.csv", "a+");
4 fwrite($fp, "pull" . ";" . $_SERVER['REMOTE_ADDR'] . ";" .
   $_GET['name'] . "\n");
5 fclose($fp);
6
7 header("Location:_https://piperpal.com/cft/s/?name=" . $_GET['
   name'] . "&glat=" . $_GET['glat'] . "&location=" . $_GET['
   location'] . "&glon=" . $_GET['glon'] . "&service=" . $_GET
   ['service'] . "&paid=" . $_GET['paid']);
8
9 exit(0);
10
11 /* $db = mysqli_connect("piperpal.mysql.domeneshop.no", "
   piperpal", "xxxxxxxx", "piperpal"); */
12
13 /* $query = "INSERT INTO piperpal (name,location,service,glat,
   glon) VALUES ('" . $_GET['name'] . "', '" . $_GET['location
   ']' . "', '" . $_GET['service'] . "', '" . $_GET['glat'] . "
   "', '" . $_GET['glon'] . "');" */
14
15 /* $result = $db->query($query); */
16 ?>
```

6.3 Source: <https://api.piperpal.com/location/robot.php>

```
1 <?php
2
3 $fp = fopen("/home/4/p/piperpal/data.csv", "a+");
4 fwrite($fp, "push;" . $_SERVER['REMOTE_ADDR'] . ";" . $_GET['
   name'] . "\n");
5 fclose($fp);
```

```

6 #header("Location:_https://piperpal.com/cft/s/?name=" . $_GET['
  name'] . "&glat=" . $_GET['glat'] . "&location=" . $_GET['
  location'] . "&glon=" . $_GET['glon'] . "&service=" . $_GET
  ['service'] . "&paid=" . $_GET['paid']);
7
8 #exit(0);
9
10 # echo $_SERVER['REMOTE_ADDR'];
11
12 # if ($_SERVER['REMOTE_ADDR']=="178.255.144.178" || $_SERVER['
  REMOTE_ADDR']=="51.175.144.124") {
13 if ($_SERVER['REMOTE_ADDR']=="178.255.144.178") {
14     $db = mysqli_connect("piperpal.mysql.domeneshop.no", "
  piperpal", "xxxxxxxx", "piperpal");
15     $query = "INSERT INTO piperpal_ (name, location, service, glat,
  glon, paid) VALUES ('" . $_GET['name'] . "', '" . $_GET[
  'location'] . "', '" . $_GET['service'] . "', '" . $_GET
  ['glat'] . "', '" . $_GET['glon'] . "', '" . $_GET['paid'] .
  "') WHERE NOT EXISTS (SELECT name FROM piperpal WHERE_
  name='" . $_GET['name'] . "')";
16     // print $query . "\n";
17     $result = $db->query($query);
18 }
19 ?>

```

6.4 Source: <https://api.piperpal.com/location/push.php>

```

1 <?php
2
3 if ($_GET['paid'] > 0) {
4     $fp = fopen("/home/4/p/piperpal/data.csv", "a+");
5     fwrite($fp, "push;" . time() . ";" . $_SERVER['REMOTE_ADDR']
  ] . ";" . $_GET['name'] . "\n");
6     fclose($fp);
7     header("Location:_https://piperpal.com/cft/s/?name=" .
  $_GET['name'] . "&glat=" . $_GET['glat'] . "&location="
  . $_GET['location'] . "&glon=" . $_GET['glon'] . "&
  service=" . $_GET['service'] . "&paid=" . $_GET['paid'
  ]);
8 }
9
10 exit(0);
11
12 /* $db = mysqli_connect("piperpal.mysql.domeneshop.no", "
  piperpal", "xxxxxxxx", "piperpal"); */
13

```



```
14 /* $query = "INSERT INTO piperpal (name,location,service,glat,  
    glon) VALUES ('" . $_GET['name'] . "', '" . $_GET['location'  
    ']' . "', '" . $_GET['service'] . "', '" . $_GET['glat'] . "  
    ", '" . $_GET['glon'] . "');" */  
15  
16 /* $result = $db->query($query); */  
17 ?>
```


Chapter 7

Resolver Interface on World Wide Web – api.piperpal.com/resolver/

7.1 Source: <https://api.piperpal.com/resolver/index.php>

```
1 <?php
2
3 $fp = fopen("/home/4/p/piperpal/rank.csv", "a+");
4 fwrite($fp, "rank:" . $_SERVER['REMOTE_ADDR'] . ";" . $_GET['
   name'] . ";" . $_GET['location'] . ";" . $_GET['service'] .
   ";" . $_GET['paid'] . "\n");
5 fclose($fp);
6 #header("Location:_https://piperpal.com/cft/s/?name=" . $_GET['
   name'] . "&glat=" . $_GET['glat'] . "&location=" . $_GET['
   location'] . "&glon=" . $_GET['glon'] . "&service=" . $_GET
   ['service'] . "&paid=" . $_GET['paid']);
7 #https://api.piperpal.com/resolver/?name=Wikipedia+%28Encyclop%
   C3%A6dia%29&service=Books&location=http://www.wikipedia.org
   /&glat=59.93405070&glon=10.74806250&paid=1
8 #exit(0);
9
10 # echo $_SERVER['REMOTE_ADDR'];
11
12 # if ($_SERVER['REMOTE_ADDR']=="178.255.144.178" || $_SERVER['
   REMOTE_ADDR']=="51.175.144.124") {
13 if ($_SERVER['REMOTE_ADDR']=="178.255.144.178") {
14     $db = mysqli_connect("piperpal.mysql.domeneshop.no", "
       piperpal", "xxxxxxx", "piperpal");
```

```
15 | $query = "INSERT INTO piperpal (name, location, service, glat,  
    | glon, paid) VALUES ('" . $_GET['name'] . "', '" . $_GET['  
    | location'] . "', '" . $_GET['service'] . "', '" . $_GET  
    | ['glat'] . "', '" . $_GET['glon'] . "', '" . $_GET['paid'] . "  
    | "') WHERE NOT EXISTS (SELECT name FROM piperpal WHERE  
    | name = '" . $_GET['name'] . "')";  
16 | // print $query . "\n";  
17 | $result = $db->query($query);  
18 | }  
19 | ?>
```

Chapter 8

Market Interface – www.piperpal.com/market/

8.1 Source: <https://www.piperpal.com/market/index.cgi>

```
1  #!/usr/bin/perl
2
3  # Copyright (C) 2018 Ole Aamot Software
4  #
5  # Author: ole@aamotsoftware.com
6  #
7  # Date: 2018-04-06T06:40:00+01
8  #
9  # Field: Incremental, location, sql, perl
10 #
11 # URL: https://www.piperpal.com/market/index.cgi
12
13 use strict;
14 use warnings;
15 use DBI;
16 use CGI qw/:standard/;
17 use CGI::Cookie;
18 use lib '../..';
19 use Piperpal;
20
21 my $c = CGI->new;
22 print "Content-Type: text/html\n\n";
23 print <<EOF;
24 <!DOCTYPE html>
25 <html lang="en">
26     <head>
```

```

27
28 <!--[if IE]><![endif]-->
29 <meta charset="utf-8">
30
31 <!--[if IE 8]>
32 <link href="/css/common_o2.1_ie8-91981
    ea8f3932c01fab677a25d869e49.css" media="all" rel="
    stylesheet" type="text/css" />
33 <![endif]-->
34 <!--[if !(IE 8)]><!-->
35 <link href="/css/common_o2.1-858
    f47868a8d0e12dfa7eb60fa84fb17.css" media="all" rel="
    stylesheet" type="text/css" />
36 <!--<![endif]-->
37
38 <!--[if lt IE 9]>
39 <link href="/css/airglyphs-ie8-9
    f053f042e0a4f621cbc0cd75a0a520c.css" media="all" rel=
    "stylesheet" type="text/css" />
40 <![endif]-->
41
42 <link href="/css/main-f3fcc4027aaa2c83f08a1d51ae189e3b.css"
    media="screen" rel="stylesheet" type="text/css" />
43 <!--[if IE 7]>
44 <link href="/css/pl_ie_7-0ab7be89d3999d751ac0e89c44a0ab50.
    css" media="screen" rel="stylesheet" type="text/css" />
45 <![endif]-->
46 <!--[if IE 6]>
47 <link href="/css/pl_ie_6-7d6a1fd8fe9fdf1ce357f6b864c83979.
    css" media="screen" rel="stylesheet" type="text/css" />
48 <![endif]-->
49 <script type="text/javascript" src="https://www.piperpal.
    com/piperpal-autocomplete-tours.php"></script>
50 <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/
    themes/smoothness/jquery-ui.css">
51 <script src="//code.jquery.com/jquery-1.10.2.js"></script>
52 <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></
    script>
53
54 <link rel="dns-prefetch" href="//maps.googleapis.com">
55 <link rel="dns-prefetch" href="//maps.gstatic.com">
56 <link rel="dns-prefetch" href="//mts0.googleapis.com">
57 <link rel="dns-prefetch" href="//fonts.googleapis.com">
58 <link rel="dns-prefetch" href="//www.piperpal.com">
59 <title>piperpal.com - Location-based Search Engine</title>
60 <link href="my_style_form.css" type="text/css" rel="
    stylesheet" />
61 <link href='http://fonts.googleapis.com/css?family=
    Titillium+Web:700' rel='stylesheet' type='text/css'>
62 <link href='http://fonts.googleapis.com/css?family=
    Titillium+Web' rel='stylesheet' type='text/css'>
63 <meta charset="utf-8" />
64 <script>
65 function price_changed() {

```

```
66     var priceWidget = document.getElementById('price');
67     var price = priceWidget.options[priceWidget.
        selectedIndex].value;
68     var stripeSubmit = document.getElementsByClassName('
        stripe-button-el')[0];
69     var regularSubmit = document.getElementById('regular-
        submit');
70     if (price > 0) {
71         stripeSubmit.style.display = 'inline-block';
72         regularSubmit.style.display = 'none';
73     } else {
74         stripeSubmit.style.display = 'none';
75         regularSubmit.style.display = 'inline-block';
76     }
77 }
78
79 function updateGeo() {
80     var glat = document.getElementById("glat");
81     var glon = document.getElementById("glon");
82
83     glat.value = position.coords.latitude;
84     glon.value = position.coords.longitude;
85
86     alert(glat+", "+glon);
87 }
88
89 function getWikipedia() {
90     jQuery(function($) {
91         $.getJSON('http://api.geonames.org/findNearbyWikipediaJSON?
            formatted=true&lat='+ position.coords.latitude +'&lng='
            + position.coords.longitude +'&username=username&style=
            full&lang=en&wikipediaUrl&thumbnailImg', function(json)
            {
92
93             for(var i = 0; i < json.geonames.length; i++)
94             {
95                 $("#wikipedia").prepend('<span_style="font-family:_
                    geneva,_arial,_helvetica,_sans-serif;"><br><br><br>' + json.geonames[i].
                    summary + '<br><a_href="http://'+ json.geonames[i].
                    wikipediaUrl +' "_target="_blank">' + json.geonames[i]
                    ].wikipediaUrl +'</a><br></span>');
96             }
97         }); });
98 }
99
100 function submit() {
101     // Strip hijacks the form submit, so we need to un-
        hijack it.
102     var form = document.getElementById('form');
103     form.submit();
104 }
105 </script>
```

```

106 <meta http-equiv="Content-Type" content="text/html;_charset
      =UTF-8" >
107 <meta http-equiv="X-UA-Compatible" content="IE=edge" >
108 <link href="//fonts.googleapis.com/css?family=Titillium+Web
      :300italic,400,700,400italic,600italic' rel='stylesheet
      ' type='text/css'>
109 <link href="//fonts.googleapis.com/css?family=Titillium+Web
      :300italic,400,700,400italic,600italic' rel='stylesheet
      ' type='text/css'>
110
111 <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/
      themes/smoothness/jquery-ui.css">
112 <script src="//code.jquery.com/jquery-1.10.2.js"></script>
113 <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></
      script>
114
115 <script type="text/javascript" src="https://www.piperpal.
      com/jquery-1.9.1.min.js"></script>
116 <script type="text/javascript" src="https://www.piperpal.
      com/jquery.autocomplete.min.js"></script>
117 <script type="text/javascript" src="https://www.piperpal.
      com/piperpal-autocomplete.php"></script>
118 <script type="text/javascript" src="https://www.piperpal.
      com/piperpal-autocomplete-names.php"></script>
119 <script type="text/javascript" src="https://www.piperpal.
      com/piperpal-autocomplete-services.php"></script>
120 <script type="text/javascript" src="https://www.piperpal.
      com/piperpal-autocomplete-locations.php"></script>
121 <script type="text/javascript" src="https://www.piperpal.
      com/piperpal-autocomplete-queries.php"></script>
122 <meta name="viewport" content="width=620" />
123 <script>
124 \$(function() {
125 \$( "#datepicker" )\$.datepicker\(\)\;
126 \$( "#simple-search-tourout" )\$.datepicker\(\)\;
127 \}\)\;
128 </script>
129 </head>
130 <body style="background:_#ffffff;" onload="document.
      getElementById('query').focus();">
131 <script type="text/javascript" src="http://maps.google.com/
      maps/api/js?sensor=true"></script>
132 <!--script type="text/javascript" src="http://maps.google.
      com/maps/api/js?sensor=false"--><!--/script-->
133 <script>
134 function success(position) {
135 var s = document.querySelector('#status');
136
137 if (s.className == 'success') {
138     // not sure why we're hitting this twice in FF, I think
        it's to do with a cached result coming back
139     return;
140 }
141

```



```
142     s.innerHTML = '<input_type=hidden_class="
        input_form_custom" _name=glat_value=' + position.
        coords.latitude + ' _/><input_type=hidden_class="
        input_form_custom" _name=glon_value=' + position.
        coords.longitude + ' _/>';
143     s.className = 'success';
144
145     var q = document.querySelector('#status_publisher');
146
147     if (q.className == 'success') {
148         // not sure why we're hitting this twice in FF, I think
            it's to do with a cached result coming back
149         return;
150     }
151
152     q.innerHTML = '<img_src="img/Latitude_Icon.png" _title="
        Latitude_of_Location-aware_Content_Tag" _class="
        icon_form" _height="36" _width="36"><input_type=text_
        class="input_form_custom" _name=glat_size=16_value='
        + position.coords.latitude + ' _/><br_/><img_src="
        img/Longitude_Icon.png" _title="Longitude_of_
        Location-aware_Content_Tag" _class="icon_form" _
        height="36" _width="36"><input_type=text_class="
        input_form_custom" _name=glon_size=16_value=' +
        position.coords.longitude + ' _/>';
153
154     // '<input type=text name=glat size=16 value=' +
        position.coords.latitude + ' /><input type=text
        name=glon size=16 value=' + position.coords.
        longitude + ' />';
155     q.className = 'success';
156
157     var r = document.querySelector('#status_lns');
158
159     if (r.className == 'success') {
160         // not sure why we're hitting this twice in FF, I think
            it's to do with a cached result coming back
161         return;
162     }
163
164     r.innerHTML = '<img_src="img/Latitude_Icon.png" _title=
        "Latitude_of_Location-aware_Content_Tag" _class="
        icon_form" _height="36" _width="36"><input_type=text_
        class="input_form_custom" _name=glat_size=16_value='
        + position.coords.latitude + ' _/><br_/><img_src="
        img/Longitude_Icon.png" _title="Longitude_of_
        Location-aware_Content_Tag" _class="icon_form" _
        height="36" _width="36"><input_type=text_class="
        input_form_custom" _name=glon_size=16_value=' +
        position.coords.longitude + ' _/>';
165
166     // '<input type=hidden class="input_form_custom" name=glat value
        =' + position.coords.latitude + ' /><input type=hidden
        class="input_form_custom" name=glon value=' + position.
```

```

coords.longitude + ' />';
167   r.className = 'success';
168
169   var mapcanvas = document.createElement('div');
170   mapcanvas.id = 'mapcanvas';
171   mapcanvas.style.height = '400px';
172   mapcanvas.style.width = '640px';
173
174   document.querySelector('article').appendChild(mapcanvas);
175
176   var latlng = new google.maps.LatLng(position.coords.
    latitude, position.coords.longitude);
177   var myOptions = {
178     zoom: 15,
179     center: latlng,
180     mapTypeControl: false,
181     navigationControlOptions: {style: google.maps.
    NavigationControlStyle.SMALL},
182     mapTypeId: google.maps.MapTypeId.ROADMAP
183   };
184   var map = new google.maps.Map(document.getElementById("
    mapcanvas"), myOptions);
185
186   var marker = new google.maps.Marker({
187     position: latlng,
188     map: map,
189     title: "You_are_here!_(at_least_within_a_+
    position.coords.accuracy+"_meter_radius) "
    });
190
191
192   var locations = [
193     ['Banja_Luka', 44.766666699999990000,
    17.1833332999999960000, 4],
194     ['Tuzla', 44.53284100000000000000, 18.6704999999999947000, 5],
195     ['Zenica', 44.20343920000000000000, 17.9077432000000027000,
    3],
196     ['Sarajevo', 43.85000000000000000000, 18.25000000000000000000,
    2],
197     ['Mostar', 43.33333330000000000000, 17.7999999999999954000, 1]
198 ];
199
200 var infowindow = new google.maps.InfoWindow();
201
202 var marker, i;
203 for (i = 0; i < locations.length; i++) {
204   marker = new google.maps.Marker({
205     position: new google.maps.LatLng(locations[i][1],
    locations[i][2]),
206     map: map
207     });
208
209 google.maps.event.addListener(marker, 'click', (function (
    marker, i) {
210   return function () {

```

```

211     infowindow.setContent(locations[i][0]);
212     infowindow.open(map, marker);
213     }
214         })(marker, i));
215     }
216 }
217
218 function error(msg) {
219     // var s = document.querySelector('#status');
220     // s.innerHTML = typeof msg == 'string' ? msg : "failed";
221     // s.className = 'fail';
222
223     // console.log(arguments);
224 }
225
226 if (navigator.geolocation) {
227     navigator.geolocation.getCurrentPosition(success, error);
228 } else {
229     error('not_supported');
230 }
231
232 </script>
233
234     <center><table><tr><td valign='top' width=600><a href="
        https://www.piperpal.com/"><img src='/piperpal.png' alt
        ='piperpal.com_Logo' width=600/></a></td></tr></table>
235
236     <div class="background_form">
237 EOF
238
239 print "<table>";
240 print "<tr><td_valign='top' _width=600>";
241 print "<center><h3>Discover_the_world_around_you</h3></center>"
    ;
242 print "</td></tr></table>";
243 &Piperpal::select_location();
244 print "<br_>";
245 print "<p>Hint:_You_could_markup_with_&lt;location&gt;_tag_in_<
    a_href='https://www.w3.org/wiki/HTML/next#.3Clocation.3
    E_element_.28like_.29_for_expressing_geo_information.2
    C_eg_with_attributes_lat.2C_long.2C_altitude'>HTML.next</a
    ><br_>";
246 print "Proposal:_<a_href=\"https://www.aamotsoftware.com/
    location.html\">https://www.aamotsoftware.com/location.html
    </a><br_>";
247 print "JSON_in_HTML5:_<a_href=\"https://www.piperpal.com/google
    .html\">https://www.piperpal.com/google.html</a></p>";
248 print "<p><a_href=\"https://www.stripe.com/\"><img_alt=\"
    Powered_by_stripe\"_src=\"/powered_by_stripe.png\"></a>&
    nbsp;<a_href=\"https://play.google.com/store/apps/details?
    id=com.piperpal.api.android&pcampaignid=MKT-Other-global-
    all-co-prtnr-py-PartBadge-Mar2515-1\"><img_alt='Get_it_on_
    Google_Play\"_src=\"/google-piperpal.png\"/></a></p>";

```

```
249 | print "<p>Copyright_&copy;_2015-2020_<location_name='Aamot_
      Software'_href='https://www.aamotsoftware.com/'_lat
      ='37.4219999'_lon='-122.0862462'_service='Electronics'>
      Aamot_Software</location><br_/_><location_name='Piperpal'_
      href='https://www.piperpal.com/'_lat='59.94215220'_lon
      ='10.71697530'_service='Crawler'>Oslo,_Norway</location>_<_
      <location_name='Piperpal'_href='https://www.piperpal.com/'_
      lat='37.879015'_lon='-122.262425'_service='Crawler'>
      Berkeley,_California,_USA</location></p>";
250 | print "</td></tr></table>\n";
251 | print "</body>\n</html>\n";
```

Chapter 9

Buying Interface – www.piperpal.com/google.html

9.1 Source: <https://www.piperpal.com/google.html>

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="user-scalable=no, _initial-
6       scale=1.0, _maximum-scale=1.0, _width=device-width">
7     <!--[if IE 8]>
8     <link href="/css/common_o2.1_ie8-91981
9       ea8f3932c01fab677a25d869e49.css" media="all" rel="
10      stylesheet" type="text/css" />
11     <![endif]-->
12     <!--[if !(IE 8)]><!-->
13     <link href="/css/common_o2.1-858
14       f47868a8d0e12dfa7eb60fa84fb17.css" media="all" rel="
15      stylesheet" type="text/css" />
16     <!--<![endif]-->
17     <!--[if lt IE 9]>
18     <link href="/css/airglyphs-ie8-9
19       f053f042e0a4f621cbc0cd75a0a520c.css" media="all"
20       rel="stylesheet" type="text/css" />
21     <![endif]-->
22     <link href="/css/main-f3fcc4027aaa2c83f08a1d51ae189e3b.css"
23       media="screen" rel="stylesheet" type="text/css" />
24     <!--[if IE 7]>
```

```
19     <link href="/css/pl_ie_7-0
20         ab7be89d3999d751ac0e89c44a0ab50.css" media="screen"
21         rel="stylesheet" type="text/css" />
22     <![endif]-->
23 <!--[if IE 6]>
24     <link href="/css/pl_ie_6-7
25         d6a1fd8fe9fdf1ce357f6b864c83979.css" media="screen"
26         rel="stylesheet" type="text/css" />
27     <![endif]-->
28 <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/
29     themes/smoothness/jquery-ui.css">
30 <link rel="dns-prefetch" href="//maps.googleapis.com">
31 <link rel="dns-prefetch" href="//maps.gstatic.com">
32 <link rel="dns-prefetch" href="//mts0.googleapis.com">
33 <link rel="dns-prefetch" href="//fonts.googleapis.com">
34 <link rel="dns-prefetch" href="//www.piperpal.com">
35 <title>piperpal.com - Location-based Search Engine</title>
36 <link href="my_style_form.css" type="text/css" rel="
37     stylesheet" />
38 <link href='http://fonts.googleapis.com/css?family=
39     Titillium+Web:700' rel='stylesheet' type='text/css'>
40 <link href='http://fonts.googleapis.com/css?family=
41     Titillium+Web' rel='stylesheet' type='text/css'>
42 <script type='text/javascript' src='https://cdnjs.
43     cloudflare.com/ajax/libs/jquery/3.3.1/jquery.min.js'></
44     script>
45 </head>
46 <!-- Styles -->
47 <style>
48     #name label{
49     display: inline-block;
50     width: 100px;
51     text-align: right;
52     }
53     #name_submit{
54     padding-left: 100px;
55     }
56     #name div{
57     margin-top: 1em;
58     }
59     textarea{
60     vertical-align: top;
61     height: 5em;
62     }
63
64     .error{
65     display: none;
66     margin-left: 10px;
67     }
68
69     .error_show{
70     color: red;
71     margin-left: 10px;
72     }
```

```
63
64     input.invalid, textarea.invalid{
65         border: 2px solid red;
66     }
67
68     input.valid, textarea.valid{
69         border: 2px solid green;
70     }
71     input {
72         padding: 10px;
73         font: 20px Arial;
74         width: 70%;
75     }
76 </style>
77 <body>
78     <!-- JavaScript Code -->
79     <script>
80         var currencyInput = document.querySelector('input[type="
81             currency"']')
82         var currency = 'USD' // https://www.currency-iso.org/dam/
83             downloads/lists/list_one.xml
84
85         // format initial value
86         onBlur({target:currencyInput})
87
88         // bind event listeners
89         currencyInput.addEventListener('focus', onFocus)
90         currencyInput.addEventListener('blur', onBlur)
91
92         function localStringToNumber( s ){
93             return Number(String(s).replace(/^[^0-9.-]+/g, ""))
94         }
95
96         function onFocus(e){
97             var value = e.target.value;
98             e.target.value = value ? localStringToNumber(value) : ''
99         }
100
101         function onBlur(e){
102             var value = e.target.value
103
104             var options = {
105                 maximumFractionDigits : 2,
106                 currency                : currency,
107                 style                  : "currency",
108                 currencyDisplay        : "symbol"
109             }
110
111             e.target.value = (value || value === 0)
112                 ? localStringToNumber(value).toLocaleString(undefined
113                 : '', options)
113     }
```

```

114     $(document).ready(function() {
115     <!-- Real-time Validation -->
116     <!--Name can't be blank-->
117     <!--Name can't be blank-->
118     <!--Name can't be blank-->
119     <!--Name can't be blank-->
120     <!--Name can't be blank-->
121     <!--Name can't be blank-->
122     <!--Name can't be blank-->
123     <!--Name can't be blank-->
124     <!--Name can't be blank-->
125     <!--Email must be an email-->
126     <!--Email must be an email-->
127     <!--Email must be an email-->
128     <!--Email must be an email-->
129     <!--Email must be an email-->
130     <!--Email must be an email-->
131     <!--Email must be an email-->
132     <!--Email must be an email-->
133     <!--Email must be an email-->
134     <!--Website must be a website -->
135     <!--Website must be a website -->
136     <!--Website must be a website -->
137     <!--Website must be a website -->
138     <!--Website must be a website -->
139     <!--Website must be a website -->
140     <!--Website must be a website -->
141     <!--Website must be a website -->
142     <!--Website must be a website -->
143     <!--Website must be a website -->
144     <!--Message can't be blank-->
145     <!--Message can't be blank-->
146     <!--Message can't be blank-->
147     <!--Message can't be blank-->
148     <!--Message can't be blank-->
149     <!--Message can't be blank-->
150     <!--Message can't be blank-->
151     <!--Message can't be blank-->
152     <!--Message can't be blank-->
153     <!--After Form Submitted Validation-->
154     <!--After Form Submitted Validation-->
155     <!--After Form Submitted Validation-->
156     <!--After Form Submitted Validation-->
157     <!--After Form Submitted Validation-->
158     <!--After Form Submitted Validation-->
159     <!--After Form Submitted Validation-->
160     <!--After Form Submitted Validation-->

```



```

195 <tr>
196 <td>Payment ( ): <input type="currency" name="paid"
      value="42" placeholder="Type a price"></td>
197 </tr>
198 <tr>
199 <td><input type="submit" name="Submit" value="Submit"
      /></td>
200 </tr>
201 </table>
202 </form>
203 <h2>Piperpal / Were / Here / After</h2>
204 <p>Peter Norvig came up with <a href="https://api.piperpal.
      com/location/push.php?name=FriendliestCoffeeShop&service=
      Search&location=https://research.google.com/&glat
      =37.4375596&glon=-122.119227899999998&paid=43">&
      FriendliestCoffeeShop</a> at <a href="https://api.piperpal.
      com/location/push.php?name=GoogleVisitorCenter&service=
      Search&location=https://www.google.com/&glat=37.4375596&
      glon=-122.119227899999998&paid=42">&GoogleVisitorCenter
      </a>: <a href="https://piperpal.com/service/0/service.php">%
      Search</a> in Palo Alto, California in 2015.</p>
205 <p>Ole thought that the <a href="https://api.piperpal.com/
      location/push.php?name=FriendliestCoffeeShop&service=Search
      &location=https://www.kaffebrenneriet.no/butikkene/1%C3%
      B8renveien-43-1%C3%B8ren&glat=59.930553&glon=10.7919344&
      paid=42">&FriendliestCoffeeShop</a> is at <a href="
      https://api.piperpal.com/location/push.php?name=
      Kaffebrenneriet&service=Search&location=https://www.
      kaffebrenneriet.no/butikkene/1%C3%B8renveien-43-1%C3%B8ren&
      glat=59.930553&glon=10.7919344&paid=42">&
      Kaffebrenneriet</a>: <a href="https://piperpal.com/service
      /8/service.php">%Food</a> in Oslo, Norway in 2019.</p>
206 <p>Moddi played a solo concert at the <a href="https://api.
      piperpal.com/location/push.php?name=CoziestVinylShop&
      service=Music&location=http://www.bigdipper.no/&glat
      =59.9137584&glon=10.7433188&paid=42">&CoziestVinylShop</a>
      and signed his brand new record on our request at <a href="
      https://api.piperpal.com/location/push.php?name=BigDipper&
      service=Music&location=http://www.bigdipper.no/&glat
      =59.9137584&glon=10.7433188&paid=42">&
      PlatebutikkenBigDipper</a>: <a href="https://piperpal.com/
      service/9/service.php">%Music</a> on September 11, 2019.
207 <p>We thought that the <a href="https://api.piperpal.com/
      location/push.php?name=ClassyItalianRestaurant&service=
      Restaurant&glat=59.9181062&glon=10.7405857&location=http://
      www.tekehtopa.no/&paid=42">&ClassyItalianRestaurant</a>
      is <a href="https://api.piperpal.com/location/push.php?
      name=Tekehtopa&service=Restaurant&glat=59.9181062&glon
      =10.7405857&location=http://www.tekehtopa.no/&paid=42">&
      ;Tekehtopa</a>: <a href="https://piperpal.com/service/1/
      service.php">%Restaurant</a> in Oslo, Norway on September
      11, 2019.</p>
208 <p>We ate at <a href="https://api.piperpal.com/location/
      push.php?name=TheBestLunchPlace&service=Restaurant&location

```


9.2 Source: <https://www.piperpal.com/cft/index.php>

```

1 <html>
2   <head>
3     <title>Piperpal</title>
4     <!--[if IE]><![endif]-->
5     <meta charset="iso-8859-1">
6     <meta name="viewport" content="user-scalable=no, _initial-
7       scale=1.0, _maximum-scale=1.0, _width=device-width">
8     <!--[if IE 8]>
9       <link href="common_o2.1_ie8-91981
10         ea8f3932c01fab677a25d869e49.css" media="all" rel="
11         stylesheet" type="text/css" />
12     <![endif]-->
13     <!--[if !(IE 8)]><!-->
14     <link href="common_o2.1-858f47868a8d0e12dfa7eb60fa84fb17.
15       css" media="all" rel="stylesheet" type="text/css" />
16     <!--<![endif]-->
17     <!--[if lt IE 9]>
18     <link href="airglyphs-ie8-9
19       f053f042e0a4f621cbc0cd75a0a520c.css" media="all" rel=
20       "stylesheet" type="text/css" />
21     <![endif]-->
22     <link href="main-f3fcc4027aaa2c83f08a1d51ae189e3b.css"
23       media="screen" rel="stylesheet" type="text/css" />
24     <!--[if IE 7]>
25     <link href="p1_ie_7-0ab7be89d3999d751ac0e89c44a0ab50.css"
26       media="screen" rel="stylesheet" type="text/css" />
27     <![endif]-->
28     <!--[if IE 6]>
29     <link href="p1_ie_6-7d6a1fd8fe9fdf1ce357f6b864c83979.css"
30       media="screen" rel="stylesheet" type="text/css" />
31     <![endif]-->
32     <!-- FIXME
33     <script type="text/javascript" src="http://www.piperpal.com/
34       piperpal-autocomplete-tours.php"></script>
35     -->
36     <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/
37       themes/smoothness/jquery-ui.css">
38     <script src="//code.jquery.com/jquery-1.10.2.js"></script>
39     <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></
40       script>
41     <link rel="stylesheet" href="/resources/demos/style.css">
42     <script>
43       $(function() {
44         $( "#simple-search-tourin" ).datepicker();
45         $( "#simple-search-tourout" ).datepicker();
46       });

```

```
35 </script>
36 </head>
37 <body>
38   
39   <form id="searchbar-form" action="s">
40     <label for="simple-search-location" class="screen-reader-
41       only">
42       What do you describe?
43     </label>
44     <input type="text"
45       placeholder="Location_Tag?"
46       autocomplete="on"
47       name="location"
48       id="simple-search-location"
49       class="input-large_js-search-location"
50       value="<?php_echo_$_GET['location'];_?>">
51     <label for="simple-search-location" class="screen-reader-
52       only">
53       What do you provide?
54     </label>
55     <input type="text"
56       placeholder="Location_Service?"
57       autocomplete="on"
58       name="service"
59       id="simple-search-service"
60       class="input-large_js-search-service"
61       value="<?php_echo_$_GET['service'];_?>">
62     <div class="row_row-condensed_space-top-2_space-2">
63       <div class="col-sm-6">
64         <label for="simple-search-tourin" class="screen-reader-
65           only">
66         Tour in
67       </label>
68       <input
69         id="simple-search-tourin"
70         type="text"
71         name="notBefore"
72         class="input-large_tourin_js-search-tourin"
73         placeholder="Not_Before">
74     </div>
75     <div class="col-sm-6">
76       <label for="simple-search-tourout" class="screen-reader
77         -only">
78       Tour out
79     </label>
80     <input
81       id="simple-search-tourout"
82       type="text"
83       name="notAfter"
84       class="input-large_tourout_js-search-tourout"
85       placeholder="Not_After">
86     </div>
87   </div>
88 </form>
89 </body>
```

```

85     <div class="select_select-block_space-2">
86         <label for="simple-search-price" class="screen-reader-
87             only">
88             Price
89         </label>
90         <select id="simple-search-price" name="paid" class="js-
91             search-price">
92             <option value="1">1</option>
93             <option value="2">2</option>
94             <option value="3">3</option>
95             <option value="4">4</option>
96             <option value="5">5</option>
97             <option value="6">6</option>
98             <option value="7">7</option>
99             <option value="8">8</option>
100            <option value="9">9</option>
101            <option value="10">10</option>
102        </select>
103    </div>
104    <button type="submit" class="btn_btn-primary_btn-large_btn-
105        block">
106        Search
107    </button>
</form>
</body>
</html>

```

9.3 Source: <https://www.piperpal.com/cft/s/index.php>

```

1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="user-scalable=no, _initial-
6         scale=1.0, _maximum-scale=1.0, _width=device-width">
7     <title>piperpal.com - Location-based Search Engine</title>
8     <!--[if IE]><![endif]-->
9     <!--[if IE 8]>
10        <link href="../common_o2.1_ie8-91981
11            ea8f3932c01fab677a25d869e49.css" media="all" rel="
12            stylesheet" type="text/css" />
13    <![endif]-->
14    <!--[if !(IE 8)]><!-->
15        <link href="../common_o2.1-858
16            f47868a8d0e12dfa7eb60fa84fb17.css" media="all" rel="
17            stylesheet" type="text/css" />

```

```

13     <!--<![endif]-->
14
15     <!--[if lt IE 9]>
16         <link href="../../../airglyphs-ie8-9
17             f053f042e0a4f621cbc0cd75a0a520c.css" media="all" rel=
18             "stylesheet" type="text/css" />
19     <![endif]-->
20
21     <link href="../../../main-f3fcc4027aaa2c83f08ald51ae189e3b.css"
22         media="screen" rel="stylesheet" type="text/css" />
23 <!--[if IE 7]>
24     <link href="../../../p1_ie_7-0ab7be89d3999d751ac0e89c44a0ab50.css
25         " media="screen" rel="stylesheet" type="text/css" />
26 <![endif]-->
27 <!--[if IE 6]>
28     <link href="../../../p1_ie_6-7d6ald8fe9fdf1ce357f6b864c83979.css
29         " media="screen" rel="stylesheet" type="text/css" />
30 <![endif]-->
31 <meta http-equiv="Content-Type" content="text/html;_charset
32     =utf-8" >
33 <meta http-equiv="X-UA-Compatible" content="IE=edge" >
34 <link href='//fonts.googleapis.com/css?family=Titillium+Web
35     :300italic,400,700,400italic,600italic' rel='stylesheet
36     ' type='text/css'>
37 <link href='//fonts.googleapis.com/css?family=Titillium+Web
38     :300italic,400,700,400italic,600italic' rel='stylesheet
39     ' type='text/css'>
40 <script type="text/javascript" src="https://www.piperpal.
41     com/jquery-1.9.1.min.js"></script>
42 <script type="text/javascript" src="https://www.piperpal.
43     com/jquery.autocomplete.min.js"></script>
44 <!-- FIXME
45 <script type="text/javascript" src="https://www.piperpal.
46     com/yaylocation-autocomplete.php"></script>
47 <script type="text/javascript" src="https://www.piperpal.
48     com/piperpal-autocomplete-names.php"></script>
49 <script type="text/javascript" src="https://www.piperpal.
50     com/piperpal-autocomplete-services.php"></script>
51 <script type="text/javascript" src="https://www.piperpal.
52     com/piperpal-autocomplete-locations.php"></script>
53 <script type="text/javascript" src="https://www.piperpal.
54     com/piperpal-autocomplete-queries.php"></script>
55 -->
56 <meta name="viewport" content="width=620" />
57 <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/
58     themes/smoothness/jquery-ui.css">
59 <script src="//code.jquery.com/jquery-1.10.2.js"></script>
60 <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></
61     script>
62 <link rel="stylesheet" href="/resources/demos/style.css">
63 <script>
64     $(function() {
65         $( "#simple-search-tourin" ).datepicker();
66         $( "#simple-search-tourout" ).datepicker();
67     });

```

```

48     });
49
50     function success(position) {
51     var s = document.querySelector('#status');
52
53     if (s.className == 'success') {
54         // not sure why we're hitting this twice in FF, I think
55         // it's to do with a cached result coming back
56         return;
57     }
58
59     s.innerHTML = '<input_type=hidden_class="
60         input_form_custom" _name=glat_value=' + position.
61         coords.latitude + ' _/><input_type=hidden_class="
62         input_form_custom" _name=glon_value=' + position.
63         coords.longitude + ' _/>';
64     s.className = 'success';
65
66     var q = document.querySelector('#status_publisher');
67
68     if (q.className == 'success') {
69         // not sure why we're hitting this twice in FF, I think
70         // it's to do with a cached result coming back
71         return;
72     }
73
74     q.innerHTML = '<img_src="img/Latitude_Icon.png" _title="
75         Latitude_of_Location-aware_Content_Tag" _class="
76         icon_form" _height="36" _width="36"><input_type=text_
77         class="input_form_custom" _name=glat_size=16_value='
78         + position.coords.latitude + ' _/><br/><img_src="
79         img/Longitude_Icon.png" _title="Longitude_of_
80         Location-aware_Content_Tag" _class="icon_form" _
81         height="36" _width="36"><input_type=text_class="
82         input_form_custom" _name=glon_size=16_value=' +
83         position.coords.longitude + ' _/>';
84
85     // '<input type=text name=glat size=16 value=' +
86     // position.coords.latitude + ' /><input type=text
87     // name=glon size=16 value=' + position.coords.
88     // longitude + ' />';
89     q.className = 'success';
90
91     var r = document.querySelector('#status_lns');
92
93     if (r.className == 'success') {
94         // not sure why we're hitting this twice in FF, I think
95         // it's to do with a cached result coming back
96         return;
97     }
98
99     r.innerHTML = '<img_src="img/Latitude_Icon.png" _title="
100         Latitude_of_Location-aware_Content_Tag" _class="
101         icon_form" _height="36" _width="36"><input_type=text_

```



```

        class="input_form_custom" _name=glat_size=16_value='
        + position.coords.latitude + ' /><br /><img_src="
        img/Longitude_Icon.png" _title="Longitude_of_
        Location-aware_Content_Tag" _class="icon_form" _
        height="36" _width="36"><input_type=text_class="
        input_form_custom" _name=glon_size=16_value=' +
        position.coords.longitude + ' />';
81
82 //<input type=hidden class="input_form_custom" name=glat value
    =' + position.coords.latitude + ' /><input type=hidden
    class="input_form_custom" name=glon value=' + position.
    coords.longitude + ' />';
83     r.className = 'success';
84
85     var mapcanvas = document.createElement('div');
86     mapcanvas.id = 'mapcanvas';
87     mapcanvas.style.height = '400px';
88     mapcanvas.style.width = '640px';
89
90     document.querySelector('article').appendChild(mapcanvas);
91
92     var latlng = new google.maps.LatLng(position.coords.
        latitude, position.coords.longitude);
93     var myOptions = {
94         zoom: 15,
95         center: latlng,
96         mapTypeControl: false,
97         navigationControlOptions: {style: google.maps.
            NavigationControlStyle.SMALL},
98         mapTypeId: google.maps.MapTypeId.ROADMAP
99     };
100    var map = new google.maps.Map(document.getElementById("
        mapcanvas"), myOptions);
101
102    var marker = new google.maps.Marker({
103        position: latlng,
104        map: map,
105        title:"You_are_here!_(at_least_within_a_
            position.coords.accuracy+"_meter_radius)"
106    });
107
108    var locations = [
109        ['Banja_Luka', 44.766666699999990000,
            17.1833332999999960000, 4],
110        ['Tuzla', 44.53284100000000000000, 18.6704999999999947000, 5],
111        ['Zenica', 44.20343920000000000000, 17.9077432000000027000,
            3],
112        ['Sarajevo', 43.85000000000000000000, 18.25000000000000000000,
            2],
113        ['Mostar', 43.33333330000000000000, 17.7999999999999954000, 1]
114    ];
115
116    var infowindow = new google.maps.InfoWindow();
117

```

```

118 var marker, i;
119 for (i = 0; i < locations.length; i++) {
120     marker = new google.maps.Marker({
121         position: new google.maps.LatLng(locations[i][1],
122             locations[i][2]),
123         map: map
124     });
125 google.maps.event.addListener(marker, 'click', (function (
126     marker, i) {
127         return function () {
128             infowindow.setContent(locations[i][0]);
129             infowindow.open(map, marker);
130         }
131     })(marker, i));
132 }
133
134 function error(msg) {
135     // var s = document.querySelector('#status');
136     // s.innerHTML = typeof msg == 'string' ? msg : "failed";
137     // s.className = 'fail';
138
139     // console.log(arguments);
140 }
141
142 if (navigator.geolocation) {
143     navigator.geolocation.getCurrentPosition(success, error);
144 } else {
145     error('not_supported');
146 }
147
148 function updateGeo() {
149     var glat = document.getElementById("glat");
150     var glon = document.getElementById("glon");
151
152     glat.value = position.coords.latitude;
153     glon.value = position.coords.longitude;
154
155     alert(glat+","+glon);
156 }
157 </script>
158
159 </head>
160 <body style="background: _#ffffff">
161 <center>
162 <a href="https://www.piperpal.com/"></a>
165 <script type="text/javascript" src="http://maps.google.com/
166     maps/api/js?sensor=true"></script>
167 <script>
168     function success(position) {
169         var s = document.querySelector('#status');

```

```
167
168     if (s.className == 'success') {
169         // not sure why we're hitting this twice in FF, I think
170         // it's to do with a cached result coming back
171         return;
172     }
173     s.innerHTML = '<input_type=hidden_class="
174         input_form_custom" _name=glat_value=' + position.
175         coords.latitude + ' _/><input_type=hidden_class="
176         input_form_custom" _name=glon_value=' + position.
177         coords.longitude + ' _/>';
178     s.className = 'success';
179
180     var q = document.querySelector('#status_publisher');
181
182     if (q.className == 'success') {
183         // not sure why we're hitting this twice in FF, I think
184         // it's to do with a cached result coming back
185         return;
186     }
187
188     q.innerHTML = '<div_class="service_form_input_form"><
189         img_src="img/icon2.png" _alt="Icon2" _class="
190         icon_form" _height="36" _width="36"><input_type=text_
191         class="input_form_custom" _name=glat_size=16_value='
192         + position.coords.latitude + ' _/></div><div_class=
193         "service_form_input_form"><img_src="img/icon2.png"
194         _alt="Icon2" _class="icon_form" _height="36" _width
195         ="36"><input_type=text_class="input_form_custom" _
196         name=glon_size=16_value=' + position.coords.
197         longitude + ' _/></div>';
198
199     // '<input type=text name=glat size=16 value=' +
200     // position.coords.latitude + ' /><input type=text
201     // name=glon size=16 value=' + position.coords.
202     // longitude + ' />';
203     q.className = 'success';
204
205     var mapcanvas = document.createElement('div');
206     mapcanvas.id = 'mapcanvas';
207     mapcanvas.style.height = '400px';
208     mapcanvas.style.width = '640px';
209
210     document.querySelector('article').appendChild(mapcanvas);
211
212     var latlng = new google.maps.LatLng(position.coords.
213         latitude, position.coords.longitude);
214     var myOptions = {
215         zoom: 15,
216         center: latlng,
217         mapTypeControl: false,
218         navigationControlOptions: {style: google.maps.
219             NavigationControlStyle.SMALL},
```

```
201     mapTypeId: google.maps.MapTypeId.ROADMAP
202     };
203     var map = new google.maps.Map(document.getElementById("
        mapcanvas"), myOptions);
204
205     var marker = new google.maps.Marker({
206         position: latlng,
207         map: map,
208         title: "You_are_here!_(at_least_within_a_+
            position.coords.accuracy+"_meter_radius)"
209         });
210
211         var locations = [
212             ['Banja_Luka', 44.766666699999990000,
                17.1833332999999960000, 4],
213             ['Tuzla', 44.5328410000000000000, 18.6704999999999947000, 5],
214             ['Zenica', 44.2034392000000000000, 17.9077432000000027000,
                3],
215             ['Sarajevo', 43.8500000000000000000, 18.2500000000000000000,
                2],
216             ['Mostar', 43.3333333000000000000, 17.799999999999954000, 1]
217         ];
218
219     var infowindow = new google.maps.InfoWindow();
220
221     var marker, i;
222     for (i = 0; i < locations.length; i++) {
223         marker = new google.maps.Marker({
224             position: new google.maps.LatLng(locations[i][1],
                locations[i][2]),
225             map: map
226             });
227
228     google.maps.event.addListener(marker, 'click', (function (
        marker, i) {
229         return function () {
230             infowindow.setContent(locations[i][0]);
231             infowindow.open(map, marker);
232         }
233         })(marker, i));
234     }
235 }
236
237 function error(msg) {
238     var s = document.querySelector('#status');
239     s.innerHTML = typeof msg == 'string' ? msg : "failed";
240     s.className = 'fail';
241
242     // console.log(arguments);
243 }
244
245 if (navigator.geolocation) {
246     navigator.geolocation.getCurrentPosition(success, error);
247 } else {
```

```

248     error('not_supported');
249 }
250
251 </script>
252 <form onsubmit='updateGeo()' id="searchbar-form" method='
      POST' action='https://www.piperpal.com/checkout.php'>
253 <input type='hidden' name='c' value='INSERT' />
254 <table cellpadding=5>
255 <tr><td>Text:<input id="simple-search-location" class="input
      -large_js-search-location" size=24 type=text name=name
      class=biginput id=name value='<?php_echo_$GET['name'];_
      ?>' placeholder='Example:_FriendliestCoffeeShop' /></td
      ></tr>
256 <tr><td>Location:<input id="simple-search-location" class="
      input-large_js-search-location" size=60 type=text name=
      location class=biginput id=location value='<?php_if_(
      isset($_GET['location']))_echo_$GET['location'];_else_(
      {_echo_'https://jitsi.aamot.software/'; echo $_GET['
      service']; echo '/'; echo $_GET['name']; } ?>' /></td
      ></tr>
257 <tr><td>Service:<input id="simple-search-location" class="
      input-large_js-search-location" size=24 type=text name=
      service class=biginput id=service value='<?php_echo_
      $_GET['service'];_?>' placeholder='Service' /></td></tr>
258 <tr><td>Not Before:<input id="simple-search-tourin" class="
      input-large_js-search-location" size=24 type=text name=
      notBefore class=biginput id=notBefore value='<?php_echo_
      $_GET['notBefore'];_?>' placeholder='Not_Before' /></td
      ></tr>
259 <tr><td>Not After:<input id="simple-search-tourout" class="
      input-large_js-search-location" size=24 type=text name=
      notAfter class=biginput id=notAfter value='<?php_echo_
      $_GET['notAfter'];_?>' placeholder='Not_After' /></td></
      tr>
260 <input id="simple-search-location" class="input-large_js-
      search-location" size=24 type=hidden name=paid class=
      biginput id=paid value='<?php_echo_$GET['paid'];_?>'
      placeholder='Price' />
261 <div id='status'>
262 <input id='glat' type='hidden' name='glat' placeholder='
      Latitude' size=32 value='37.42242580' />
263 <input id='glon' type='hidden' name='glon' placeholder='
      Longitude' size=32 value='-122.08755550' />
264 </div>
265 <tr><td><form action='' method='POST'><script src='https://
      checkout.stripe.com/checkout.js' class='stripe-button'
      data-key='pk_live_9UbKhDJJWAFnMjYQTBA8I9i00H8Z5eMmL'
      data-amount='<?php_echo_$GET['paid'];_?>' data-name='
      Aamot_Software' data-description='<?php_echo_$GET['
      location'];_?>/_<?php_echo_$GET['service'];_?>_(<?php_
      echo_$GET['paid'];_?>)' data-image='/img/Location_Icon.
      png'></script></td></tr>
266 </table>
267 </form>

```

```
268 | </body>  
269 | </html>
```

Chapter 10

Python Resolver Scripts

10.1 bin/gensource

```
1 #!/usr/bin/python
```

10.2 bin/indexer

```
1 # Written by Ole Aamot, 20211017
2
3 from cgi import parse_qs, escape
4 from urllib import quote_plus
5 import cgi
6 import urllib3
7
8 import hashlib
9 from math import radians, cos, sin, asin, sqrt
10 import textwrap
11 from cgi import parse_qs, escape
12 from bs4 import BeautifulSoup
13 import cgi
14 import time
15
16 def recursive_fetch(l, lat, lon):
17     p = http.request('GET', l)
18     o = p.data
19     y = BeautifulSoup(o, "lxml")
```

```

20     m = hashlib.sha256(p.data).hexdigest()
21     locationtags = y.find_all("location")
22     i = 0
23     print locationtags
24     while (i < len(locationtags)):
25         name = y.findAll("location")[i]["name"]
26         glat = y.findAll("location")[i]["lat"]
27         glon = y.findAll("location")[i]["lon"]
28         service = y.findAll("location")[i]["service"]
29         data = y.findAll("location")[i]
30         href = y.findAll("location")[i]["href"]
31         r = haversine(float(glat), float(glon), float(lat), float(
32             lon))
33         print(gindex(r, name, m, href, data, glat, glon, lat, lon))
34         linker = 'https://api.piperpal.com/location/robot.php?name='
35             + quote_plus(name.encode('utf-8'), safe=':/') + '&
36             service=' + quote_plus(service.encode('utf-8'), safe='
37             :/') + '&location=' + quote_plus(href.encode('utf-8'),
38             safe=':/') + '&glat=' + glat + '&glon=' + glon + '&paid
39             =1'
40         insert = http.request('GET', linker)
41         print linker
42         print insert
43         object = insert.data
44         # tester = BeautifulSoup(object, "lxml")
45         # macron = hashlib.sha256(insert.data).hexdigest(
46             recursive_fetch(href, lat, lon)
47         i = i + 1
48
49 def haversine(lat1, lon1, lon2, lat2):
50     """
51     Calculate the great circle distance between two points
52     on the earth (specified in decimal degrees)
53     """
54     # convert decimal degrees to radians
55     lon1, lat1, lon2, lat2 = map(radians, [lon1, lat1, lon2,
56         lat2])
57
58     # haversine formula
59     dlon = lon2 - lon1
60     dlat = lat2 - lat1
61     a = sin(dlat/2)**2 + cos(lat1) * cos(lat2) * sin(dlon/2)**2
62     c = 2 * asin(sqrt(a))
63     r = 6371 # Radius of earth in kilometers. Use 3956 for
64         miles
65     return c * r
66
67 def gindex(radius, n, d, l, query, my_lat, my_lon, lat, lon):
68     return radius, n, d, l, query, my_lat, my_lon, lat, lon
69
70 http = urllib3.PoolManager()
71 q = 'Google'
72 l = 'http://aamot.software/piperpal.xml'
73 lat = '37.42242500'

```



```

66 lon = '-122.08755550'
67 service = 'Books'
68 recursive_fetch(l, lat, lon)

```

10.3 bin/piperpal

```

1 # Written by Ole Aamot, 20211017
2
3 from cgi import parse_qs, escape
4 from urllib import quote_plus
5 import cgi
6 import urllib3
7
8 import hashlib
9 from math import radians, cos, sin, asin, sqrt
10 import textwrap
11 from cgi import parse_qs, escape
12 from bs4 import BeautifulSoup
13 import cgi
14 import time
15
16 def recursive_fetch(l, lat, lon):
17     p = http.request('GET', l)
18     o = p.data
19     y = BeautifulSoup(o, "lxml")
20     m = hashlib.sha256(p.data).hexdigest()
21     locationtags = y.find_all("location")
22     i = 0
23     # print locationtags
24     while (i < len(locationtags)):
25         name = y.findAll("location")[i]["name"]
26         glat = y.findAll("location")[i]["lat"]
27         glon = y.findAll("location")[i]["lon"]
28         service = y.findAll("location")[i]["service"]
29         data = y.findAll("location")[i]
30         href = y.findAll("location")[i]["href"]
31         recursive_fetch(href, glat, glon)
32         r = haversine(float(glat), float(glon), float(lat), float(
33             lon))
34         print(gindex(r, name, m, href, data, glat, glon, lat, lon))
35         linker = 'https://api.piperpal.com/location/robot.php?name='
36             + quote_plus(name.encode('utf-8'), safe=':/') + '&
37             service=' + quote_plus(service.encode('utf-8'), safe='
38             :/') + '&location=' + quote_plus(href.encode('utf-8'),
39             safe=':/') + '&glat=' + glat + '&glon=' + glon + '&paid
40             =1'
41         insert = http.request('GET', linker)

```

```

36     print linker
37     print insert
38     object = insert.data
39     # tester = BeautifulSoup(object, "lxml")
40     # macron = hashlib.sha256(insert.data).hexdigest()
41     i = i + 1
42     recursive_fetch(href, lat, lon)
43
44 def haversine(lat1, lon1, lon2, lat2):
45     """
46     Calculate the great circle distance between two points
47     on the earth (specified in decimal degrees)
48     """
49     # convert decimal degrees to radians
50     lon1, lat1, lon2, lat2 = map(radians, [lon1, lat1, lon2,
51     lat2])
52
53     # haversine formula
54     dlon = lon2 - lon1
55     dlat = lat2 - lat1
56     a = sin(dlat/2)**2 + cos(lat1) * cos(lat2) * sin(dlon/2)**2
57     c = 2 * asin(sqrt(a))
58     r = 6371 # Radius of earth in kilometers. Use 3956 for
59     miles
60     return c * r
61
62 def gindex(radius, n, d, l, query, my_lat, my_lon, lat, lon):
63     return radius, n, d, l, query, my_lat, my_lon, lat, lon
64
65 http = urllib3.PoolManager()
66 q = 'Google'
67 l = 'https://www.aamotsoftware.com/piperpal.xml'
68 lat = '37.42242500'
69 lon = '-122.08755550'
70 service = 'Books'
71 recursive_fetch(l, lat, lon)

```

10.4 bin/genpiperpalsource

```

1 #!/usr/bin/perl
2
3 use CGI;
4 use DBI;
5
6 sub get_locations {
7     my $c = CGI->new;

```

```

8   my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
    piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxx",
    {'RaiseError' => 1});
9   print "<?xml_version='1.0'?>\n";
10  print "<piperpal_version='2.0'>\n";
11  $dbh->do("SELECT_DISTINCT_email,name,glat,glon,location,
    modified,created,service,paid_FROM_piperpal_WHERE_
    modified_<_NOW()_and_created_>_NOW();");
12  my $sth = $dbh->prepare("SELECT_DISTINCT_email,name,glat,
    glon,location,modified,created,service,paid_FROM_
    piperpal_WHERE_modified_<_NOW()_and_created_>_NOW()_
    ORDER_by_name;");
13  $sth->execute();
14  while (my $ref = $sth->fetchrow_hashref()) {
15      print "<location_src='http://api.piperpal.com/
    location'_service=' " . $ref->{'service'} .
    ":" . $ref->{'email'} . "'_name=' " . $ref
    ->{'name'} . "'_lat=' " . $ref->{'glat'} . "
    '_lon=' " . $ref->{'glon'} . "'_href=' " .
    $ref->{'location'} . "'_notbefore=' " . $ref
    ->{'modified'} . "'_notafter=' " . $ref->{'
    created'} . "'_paid=' " . $ref->{'paid'} . "
    '>" . $ref->{'name'} . "</location>\n";
16  }
17  $sth->finish();
18  $dbh->disconnect();
19  print "</piperpal>\n";
20  return;
21 }
22 &get_locations;

```

10.5 bin/resolver

```

1  # Written by Ole Aamot, 20200409
2
3  from cgi import parse_qs, escape
4  from urllib import quote_plus
5  import cgi
6  import urllib3
7  import mysql.connector
8  from mysql.connector import Error
9  import hashlib
10 from math import radians, cos, sin, asin, sqrt
11 import textwrap
12 from cgi import parse_qs, escape
13 from bs4 import BeautifulSoup
14 import cgi

```

```

15 import time
16
17 def piperpal_resolver(l,n,s,lat,lon):
18     p = http.request('GET', l)
19     o = p.data
20     y = BeautifulSoup(o, "lxml")
21     m = hashlib.sha256(p.data).hexdigest()
22     locationtags = y.find_all("location")
23     i = 0
24     print locationtags
25     while (i < len(locationtags)):
26         name = y.findAll("location")[i]["name"]
27         glat = y.findAll("location")[i]["lat"]
28         glon = y.findAll("location")[i]["lon"]
29         service = y.findAll("location")[i]["service"]
30         data = y.findAll("location")[i]
31         href = y.findAll("location")[i]["href"]
32         r = haversine(float(glat), float(glon), float(lat), float(
33             lon))
34         # print map
35         print(gindex(r, name, m, href, data, glat, glon, lat, lon))
36         linker = 'https://api.piperpal.com/resolver/?name=' +
37             quote_plus(name.encode('utf-8'), safe=':/') + '&service=' +
38             quote_plus(service.encode('utf-8'), safe=':/') + '&location=' +
39             quote_plus(href.encode('utf-8'), safe=':/') + '&glat=' + glat +
40             '&glon=' + glon + '&paid=1'
41         insert = http.request('GET', linker)
42         print linker
43         print insert
44         object = insert.data
45         # tester = BeautifulSoup(object, "lxml")
46         # macron = hashlib.sha256(insert.data).hexdigest()
47         i = i + 1
48         piperpal_resolver(href,s,n,lat,lon)
49     return (y,i)
50
51 def haversine(lat1, lon1, lon2, lat2):
52     """
53     Calculate the great circle distance between two points
54     on the earth (specified in decimal degrees)
55     """
56     # convert decimal degrees to radians
57     lon1, lat1, lon2, lat2 = map(radians, [lon1, lat1, lon2,
58         lat2])
59
60     # haversine formula
61     dlon = lon2 - lon1
62     dlat = lat2 - lat1
63     a = sin(dlat/2)**2 + cos(lat1) * cos(lat2) * sin(dlon/2)**2
64     c = 2 * asin(sqrt(a))
65     r = 6371 # Radius of earth in kilometers. Use 3956 for
66         miles
67     return c * r

```

```
62 def gindex(radius,n,d,l,query,my_lat,my_lon,lat,lon):
63     return radius,n,d,l,query,my_lat,my_lon,lat,lon
64 services = dict()
65 services = ('Restaurant','Bar','Concert','Film','Books','Health
        ','Clothes','Food','Music','Electronics','Transport','
        Rental')
66 http = urllib3.PoolManager()
67 q = 'Wikipedia'
68 p = 1
69 l = 'http://www.piperpal.com/piperpal.xml';
70 lat = '37.42242500'
71 lon = '-122.08755550'
72 service = 'Books'
73 for x in range(-90, 91):
74     for y in range(-180, 181):
75         print x,y,lat,lon,q,l,0
76         print x,y,lat,lon,q,l,1
77         for z in services:
78             # if (z=="Restaurant"):
79                 print z,x,y,lat,lon,q,l,1
80             # print "Restaurant"
81                 piperpal_resolver(l,1,z,lat,lon)
```


Chapter 11

Cron Jobs

11.1 0 * * * * /bin/piperpal

The “piperpal” cron job runs every hour and executes the Python script `bin/piperpal` which runs recursive fetch of the XML file `https://www.aamotsoftware.com/piperpal.xml` for processing into the database.

11.2 0 * * * * python /bin/indexer

The “indexer” cron job runs every hour and executes the Python script `indexer` which runs recursive fetch of the XML file `https://aamot.software/piperpal.xml` for processing into the index via `https://api.piperpal.com/location/robot.php?name=&service&location&glat&glon&paid=1`

11.3 0 * * * * /bin/genpiperpalsource >/var/www/html/aamotsoftware/piperpal.xml

The “genpiperpalsource” cron job runs every hour and write the file `https://www.aamotsoftware.com/piperpal.xml` from the SQL database from the Perl script “genpiperpalsource”.

Chapter 12

Mobile App

12.1 Android – <https://www.github.com/piperpal/android>

<https://www.piperpal.com/apk/piperpal.apk>

12.2 iOS – <https://www.github.com/piperpal/ios>

Chapter 13

Web App

13.1 World Wide Web – <https://www.geopher.com/>

<https://www.geopher.com/>

SQL Queries