

# Location Search for World Wide Web

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# Chapter 1

## MariaDB Database Structure

A MariaDB (<http://www.mariadb.org/>) database structure for our implementation of “Location Search for 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 for 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", "xxxxxxxxxx"
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             locationservicename') && $c->param('location')) {
56             if ($ref->{'name'} == $c->param('locationservicename'))
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", "xxxxxxxxxx"
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 $servicep;
90     if ($c->param('service')) {
91         my $servicep = $c->param('service');
92     } else {
93         my $servicep = "Concert";
94     }
95     print "<form_onsubmit='updateGeo()' _method='GET' _action='
96         https://www.piperpal.com/#results' _id='formID'>";
97     print '<table>';
98     if ('GET' eq $c->request_method && $c->param('query')) {
99         print '<tr><td><center><input_size="30" _type="text" _
100             autofocus_class="input_form_custom" _id="query" _name="
101             query" _placeholder="Where_do_you_think&quest;" _value="
102             . HTML::Entities::encode($c->param('query')) . "' _/></
103             center></td></tr>';
104     # $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
105     piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxxxxx", {'
106     RaiseError' => 1});
107     # $dbh->{'mysql_enable_utf8'} = 1;
108     # if ($c->param('query')) {
109     #     $sth = $dbh->prepare ("SELECT _name,location,service_
110     FROM _piperpal _WHERE_ (name_LIKE_'%" . $c->param('query') . "
111     %'_OR_service_LIKE_'%" . $c->param('query') . "%') _ORDER_by
112     _modified_DESC;");
113     $sth->
114     execute();
115     #     while (my $ref = $sth->fetchrow_hashref()) {
116     #         print '<tr><td></td><td>';
117     #         lns_item($ref->{'name'}, $ref->{'location'}, $ref->{
118     # 'service'}, $ref->{'glat'}, $ref->{'glon'}, $ref->{'
119     # modified'}, $ref->{'created'}, $ref->{'distance_in_km'});

```

```

104 #           print '</td></tr>';
105 # #   }
106 #   }
107 #:      $sth->finish();
108 # $ref->{'name'}, $ref->{'location'}, $ref->{'service'}, $ref
->{'glat'}, $ref->{'glon'}, $ref->{'modified'}, $ref->{'
created'}, $ref->{'distance_in_km'}
109   } else {
110   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>';
111   }
112   print '</tr><tr><td>';
113   print '<select_size="8" id="service" name="service">';
114   # print '<option_value="' . $servicep . "' _selected>" .
    $servicep . "'</option>';
115   print '<option_value="Restaurant">Restaurant</option><
option_value="Bar">Bar</option><option_value="Concert" _
selected>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="Search
">Search</option><option_value="Transport">Transport</
option><option_value="Rental">Rental</option>';
116   print '</select></td>';
117   print '<td><select_size="8" name="radius" id="radius" class
="input_form_custom">';
118   foreach $r (@radiuses) {
119   if ($c->param('radius')) {
120     if ($c->param('radius')===$r) {
121       print "<option_value=' " . $r . "' _selected>" . $r . " _
km</option>";
122     } else {
123       print "<option_value=' " . $r . "'>" . $r . " _km</option
>";
124     }
125   } else {
126     if ($r == 5) {
127       print "<option_value=' " . $r . "' _selected>" . $r . " _
km</option>";
128     } else {
129       print "<option_value=' " . $r . "'>" . $r . " _km</option
>";
130     }
131   }
132   }
133   }
134   print '</select></td>';
135   print '<td>&nbsp;</td><td><input_type="submit" id="search" _
name="search" _value="Go" /></td></tr></table>';
136   print "<span_id='status'><input_type='hidden' name='glat' _
/><input_type='hidden' name='glon' _/></span>\n";

```



```

137     print "</form>";
138     print "<h3>Be_discovered_by_the_world_around_you</h3>";
139     print "<p><a_href='https://www.piperpal.com/google.html'>
        Submit_entries_in_Piperpal\'s_Location-aware_Search_
        Engine</a></p>";
140 #     &Piperpal::input_publisher();
141 #     &Piperpal::insert_publisher();
142     print "<br>";
143     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>';;
144     print '<p>Locations:_<a_href="https://www.piperpal.com/
        location/berkeley">Berkeley</a>,<a_href="https://www.
        piperpal.com/location/london">London</a>,<a_href="
        https://www.piperpal.com/location/nyc">New_York_City</a
        >,<a_href="https://www.piperpal.com/location/paris">
        Paris</a>,<a_href="https://www.piperpal.com/location/
        oslo">Oslo</a></p>' ;
145     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>' ;
146 }
147
148 sub input_publisher {
149
150     my $c = CGI->new;
151     print "<tr><td_width=' 60'>&nbsp;</td><td><form_onsubmit='
        updateGeo()'_id='welcomeForm'_name='welcomeForm'_action
        ='https://www.piperpal.com/checkout.php'_method='POST'>
        ";
152     print '<span_class="input_form">' ;
153     print '<img_src="img/Name_Icon.png"_title="Name_of_Location
        -aware_Content_Tag"_class="icon_form"_height="70"_width
        ="70">' ;
154     if ($c->param('query')) {
155     print '<input_type="text"_id="name"_class="
        input_form_custom"_name="name"_placeholder="Name"_value
        =' . HTML::Entities::encode($c->param('query')) . '</>'
        ;
156     } else {
157     print '<input_type="text"_id="name"_class="
        input_form_custom"_name="name"_placeholder="Name"</>' ;
158     }
159     print '</span>' ;
160     print '</td></tr><tr><td_width=60>&nbsp;</td><td>' ;
161     print '<span_class="input_form">' ;
162     print '<img_src="img/Location_Icon.png"_title="URL_of_
        Location-aware_Content_Tag"_class="icon_form"_height
        ="70"_width="70">' ;
163     print '<input_type="text"_id="location"_class="
        input_form_custom"_name="location"_placeholder="https

```



```

188     _____class="input-large_tourin_js-search-tourin"
189     _____placeholder="Not_Before">
190     _____</span>
191     _____<span_class="col-sm-6">
192     _____<label_for="simple-search-tourout" _class="screen-reader
        -only">
193     _____Tour_out
194     _____</label>
195     _____<input
196     _____id="simple-search-tourout"
197     _____type="text"
198     _____name="notAfter"
199     _____class="input-large_tourout_js-search-tourout"
200     _____placeholder="Not_After">
201     _____</span>
202     _____</span>' ;
203     # print '</span>';
204     print "<span_id='status_publisher'>\n";
205     # print "<span_class='input_form_custom'>";
206     print "<input_id='glat' _class='input_form_custom' _type='
        text' _name='glat' _placeholder='Latitude' _size=35_/>\n";
207     # print "<span_class='input_form_custom'>
208     print "<input_id='glon' _class='input_form_custom' _type='
        text' _name='glon' _placeholder='Longitude' _size=35_/>\n"
        ;
209     print "</span>\n";
210     print "<input_type='hidden' _name='c' _value='INSERT' _/>\n";
211     print '<span_class="send_form">';
212     print "<script_src='https://checkout.stripe.com/checkout.js
        _class='stripe-button' _data-key='
        pk_live_9UbKhDJJWafnMjYQTBA8I9i00H8Z5eMmL' _data-amount
        ='41' _data-name='Aamot_Software' _data-description='
        Piperpal_Entry_($0.41_USD)' _data-image='/img/
        Location_Icon.png'>></script>";
213     # print '<input_class="custom_send_button" _type="submit" _
        value="PAY_WITH_CARD">';
214     print '</span>';
215     print '</form>';
216     print '</td></tr>';
217
218     # print "<input_type='hidden' _name='c' _value='INSERT' _/>\n";
219     # print "<table_cellpadding=5><tr>";
220     # print "<td><a_href='https://www.piperpal.com/Piperpal
        '><img_border=0_width=16_height=16_src='js-icon.png' _
        /></td>";
221     # print "<td><input_size=16_type=text_name=name_class=
        biginput_id=name_placeholder='Name' _/></td>\n";
222     # print "<td><input_size=20_type=text_name=location_class=
        biginput_id=location_placeholder='https://' _/></td>\n";
223     #print "<td><input_size=16_type=text_name=service_class=
        biginput_id=service_placeholder='Service' _/></td>\n";
224     #print "<span_id='status'><input_type='hidden' _name='glat' _
        placeholder='Latitude' _size=16_/><input_type='hidden' _
        name='glon' _placeholder='Longitude' _size=16_/></span>\n

```

```

225     ";
# 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_live_odDlc1NMTUJdPN4WC2VTLvvu'_data-amount
='10'_data-name='Aamot_Software'_data-description='1_
Hour_Programming/Support_(10_cent)'_data-image='/128
x128.png'></script></td>";
226 # print "</tr>\n";
227 # print "</form>\n";
228
229
230 }
231
232 sub input_advertiser {
233
234     my $c = CGI->new;
235     print "<input_type='hidden'_name='c'_value='INSERT'_/>\n";
236     print "<table_cellpadding=5><tr>";
237     print "<td>Word</td><td><input_type=text_name=name_class=
        biginput_id=name_placeholder='Name'></textare></td>\n"
        ;
238     print "<td><input_size=20_type=text_name=location_class=
        biginput_id=location_placeholder='https://'_/></td>\n";
239     print "<td><input_size=16_type=text_name=service_class=
        biginput_id=service_placeholder='Service'_/></td>\n";
240 #     print '<td><span_class="row_row-condensed_space-top-2_
space-2">
241 #         <span class="col-sm-6">
242 #             <label for="simple-search-tourin" class="screen-reader
-only">
243 #                 Tour in
244 #             </label>
245 #             <input
246 #                 id="simple-search-tourin"
247 #                 type="text"
248 #                 name="notBefore"
249 #                 class="input-large_tourin_js-search-tourin"
250 #                 placeholder="Not_Before">
251 #             </span>
252 #             <span class="col-sm-6">
253 #                 <label for="simple-search-tourout" class="screen-
reader-only">
254 #                     Tour out
255 #                 </label>
256 #                 <input
257 #                     id="simple-search-tourout"
258 #                     type="text"
259 #                     name="notAfter"
260 #                     class="input-large_tourout_js-search-tourout"
261 #                     placeholder="Not_After">
262 #                 </span>
263 #             </span>';
264     print "<span_id='status'><input_type='hidden'_name='glat'_

```



```

300     print '<a_href="/" . $name . "'><img_src="/img/Name_Icon.
        png" _title="Name_of_Location-aware_Content_Tag" _height
        ="70" _width="70"></a>';
301     print '</td><td><input_type="text" _id="' . $name . "' _name="
        name" _placeholder="Name" _value="' . $name . "'></td></
        tr>';
302     # print '</span>';
303     # print '<br>';
304     # print '<span_class="website_form_input_form">';
305     print "<tr><td_width=' 60'>";
306     print '<a_href="' . $location . "'><img_src="/img/
        Location_Icon.png" _title="URL_of_Location-aware_Content
        _Tag" _height="70" _width="70"></a>';
307     print '</td><td><input_type="text" _id="' . $name . "'
        _location' . "' _name="location" _placeholder="https://" _
        value="' . $location . "'>';
308     # print '</span>';
309     # print '<br>';
310     # print '<span_class="service_form_input_form">';
311     print "</td></tr><tr><td_width=' 60'>";
312     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>';
313     print '<input_type="text" _id="' . $name . '_service' . "' _
        name="service" _placeholder="Service" _value="' .
        $service . "'>';
314     print "</td></tr><tr><td_width=' 60'>";
315     # print '<span_class="row_row-condensed_space-top-2_space
        -2">
316     #     <span class="col-sm-6">
317     #         <label for="simple-search-tourin" class="screen-reader
        -only">
318     #             Tour in
319     #         </label>
320     #         <input
321     #             id="datepicker"
322     #             type="text"
323     #             name="notBefore"
324     #             class="input-large_tourin_js-search-tourin"
325     #             placeholder="Not_Before" value="' . $created . "'>
326     #         </span>
327     #         <span class="col-sm-6">
328     #             <label for="simple-search-tourout" class="screen-
        reader-only">
329     #                 Tour out
330     #             </label>
331     #             <input
332     #                 id="datepicker"
333     #                 type="text"
334     #                 name="notAfter"
335     #                 class="input-large_tourout_js-search-tourout"
336     #                 placeholder="Not_After" value="' . $modified . "'>
337     #             </span>
338     #         </span>';

```

```

339 #   print '</span>';
340 print "</td></tr><tr><td_width=' 60'>";
341 print "<span_id=' status_lns'>\n";
342 #   print "<span_class=' service_form_input_form'>";
343 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";
344 print "</td></tr><tr><td_width=' 60'>";
345
346 #</span>\n";
347
348 #   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";
349
350 #   print "<span_class=' service_form_input_form'>
351 print "</td></tr><tr><td width=' 60'>";
352 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";
353 #</span>\n";
354
355 #   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";
356
357 print "</td></tr><tr><td_width=' 60'>";
358 print "<input_type=' hidden'_name=' c'_value=' INSERT'_>\n";
359 #   print '<span_class="send_form">';
360 #   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>";
361 #   print '<input_class="custom_send_button" type="submit"
      value="PAY_WITH_CARD">';
362 #   print '</span>';
363 print "</td></tr>";
364 print "</table>";
365 #   print "<form_action='http://www.piperpal.com/checkout.php
      ?name=" . $name . "&service=" . $service . "'_method='
      POST'>";
366 #   print '<span_class="name_form_input_form">';
367 #   print '<img_src="img/icon1.png" alt="Icon1" style="margin
      -right:27px" class="icon_form" height="70" width="70">'
      ;
368 #   print '<input_type="text" value=" " . $name . "'_id=" ' .
      $name . "'_class="input_form_custom" name="name">';

```

```

        placeholder="" . $name . '>';
369 # print '</span>';
370 # print '<br>';
371 # print '<span_class="website_form_input_form">';
372 # print '<img_src="img/icon2.png"_alt="Icon2"_class="
        icon_form" _height="70" _width="70">';
373 # print '<input_type="text" _value="" . $location . "'_id="
        location" _class="input_form_custom" _name="location" _
        placeholder="" . $location . "'>';
374 # print '</span>';
375 # print '<br>';
376 # print '<span_class="service_form_input_form">';
377 # print '<img_src="img/icon3.png" _alt="Icon3" _class="
        icon_form" _height="70" _width="70">';
378 # print '<input_type="text" _value="" . $service . "'_id="
        service" _class="input_form_custom" _name="service" _
        placeholder="" . $service . "'>';
379 # print '</span>';
380 # print "<span_id='status_lns'>\n";
381 # print "<span_class='service_form_input_form'>";
382 # print '<img_src="img/icon2.png" _alt="Icon2" _class="
        icon_form" _height="70" _width="70">';
383 # print "<input_id='glat' _value="" . $glat . "'_class='
        input_form_custom' _type='text' _name='glat' _placeholder
        =' " . $glat . "'_size=16_/></span>\n";
384 # print "<span_class='service_form_input_form'>";
385 # print '<img_src="img/icon2.png" _alt="Icon2" _class="
        icon_form" _height="70" _width="70">';
386 # print "<input_id='glon' _value="" . $glon . "'_class='
        input_form_custom' _type='text' _name='glon' _placeholder
        =' " . $glon . "'_size=16_/></span>\n";
387 # print "</span>\n";
388 # print "<input_type='hidden' _name='c' _value='INSERT'_/>\n"
        ;
389 # print '<span_class="send_form_item">';
390 # print "<script_src='https://checkout.stripe.com/checkout.
        js' _class='stripe-button' _data-key='
        pk_live_odD1c1NMTUJdPN4WC2VTLvvu' _data-amount='500' _
        data-name='Aamot_Software' _data-description=' " .
        $service . "_(5_USD)' _data-image='/img/icon2.png'></
        script>";
391 # print '</span>';
392 # print '</form>';
393
394 }
395
396 sub lns_market_item {
397     my $c = CGI->new;
398     my $dbh = DBI->connect ("DBI:mysql:database=piperpal;host=
        piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxxxxx"
        , {'RaiseError' => 1});
399
400     my $name = shift (@_);
401     my $location = shift (@_);

```





```

436 #         </label>
437 #         <input
438 #             id="datepicker"
439 #             type="text"
440 #             name="notBefore"
441 #             class="input-large_tourin_js-search-tourin"
442 #             placeholder="Not_Before" value="'_.$created_.'">
443 #         </span>
444 #         <span class="col-sm-6">
445 #             <label for="simple-search-tourout" class="screen-
reader-only">
446 #                 Tour out
447 #             </label>
448 #             <input
449 #                 id="datepicker"
450 #                 type="text"
451 #                 name="notAfter"
452 #                 class="input-large_tourout_js-search-tourout"
453 #                 placeholder="Not_After" value="'_.$modified_.'">
454 #             </span>
455 #         </span>';
456 #         print '</span>';
457         print "</td></tr><tr><td width=' 60'>";
458         print "<span_id='status_lns'>\n";
459 #         print "<span_class='service_form_input_form'>";
460         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";
461 #</span>\n";
462
463 #         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=' " . $glat . "' /></span>\n";
464
465         #         print "<span_class='service_form_input_form'>
466         print "</td></tr><tr><td width=' 60'>";
467         print "<img src='/img/Longitude_Icon.png' alt='Icon2'
height='70' width='70'></td><td><input id='_.$name_'"
_glon' type='text' name='glon' placeholder='Longitude' size
=35 value='_.$glon_'" />\n";
468 #</span>\n";
469
470 #         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";
471         print "</td></tr><tr><td width=' 60'>";
472         print "<img_src='/img/Email_Icon.png'_alt='Icon2'_height
='70'_width='70'></td><td>";
473         print "<input_id=' " . $name . "_expire'_type='text'_name='

```

```

        expire' _placeholder=' ' _size=35_value=' ' . $modified . "
        ' _/>\n";
474 print "</td></tr><tr><td_width=' 60'>";
475 print "<img_src=' /img/Phone_Icon.png' _alt=' Icon2' _height
        =' 70' _width=' 70'></td><td>";
476 print "<input_id=' ' . $name . "_expire' _type='text' _name='
        expire' _placeholder=' ' _size=35_value=' ' . $created . "
        ' _/>\n";

        print "</td></tr><tr><td_width=' 60'>";
477 print "<input_type='hidden' _name='c' _value=' INSERT' _/>\n";
478 # print '<span_class="send_form">';
479 # 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>";
480 # print '<input_class="custom_send_button" _type="submit" _
        value="PAY_WITH_CARD">';
481 # print '</span>';
482 print "</td></tr>";
483 print "</table>";
484 # print "<form_action=' http://www.piperpal.com/checkout.php
        ?name=" . $name . "&service=" . $service . "' _method='
        POST'>";
485 # print '<span_class="name_form_input_form">';
486 # print '<img_src="img/icon1.png" _alt="Icon1" _style="margin
        -right:27px" _class="icon_form" _height="70" _width="70">'
        ;
487 # print '<input_type="text" _value=" ' . $name . ' " _id=" ' .
        $name . ' " _class="input_form_custom" _name="name" _
        placeholder=" ' . $name . ' ">';
488 # print '</span>';
489 # print '<br>';
490 # print '<span_class="website_form_input_form">';
491 # print '<img_src="img/icon2.png" _alt="Icon2" _class="
        icon_form" _height="70" _width="70">';
492 # print '<input_type="text" _value=" ' . $location . ' " _id="
        location" _class="input_form_custom" _name="location" _
        placeholder=" ' . $location . ' ">';
493 # print '</span>';
494 # print '<br>';
495 # print '<span_class="service_form_input_form">';
496 # print '<img_src="img/icon3.png" _alt="Icon3" _class="
        icon_form" _height="70" _width="70">';
497 # print '<input_type="text" _value=" ' . $service . ' " _id="
        service" _class="input_form_custom" _name="service" _
        placeholder=" ' . $service . ' ">';
498 # print '</span>';
499 # print "<span_id=' status_lns'>\n";
500 # print "<span_class=' service_form_input_form'>";
501 # print '<img_src="img/icon2.png" _alt="Icon2" _class="
        icon_form" _height="70" _width="70">';
502 # print "<input_id=' glat' _value=' ' . $glat . ' " _class='

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        input_form_custom' _type='text' _name='glat' _placeholder
        =' " . $glat . "' _size=16_></span>\n";
503 # print "<span_class='service_form_input_form'>";
504 # print '<img_src="img/icon2.png" _alt="Icon2" _class="
        icon_form" _height="70" _width="70">';
505 # print "<input_id='glon' _value=' " . $glon . "' _class='
        input_form_custom' _type='text' _name='glon' _placeholder
        =' " . $glon . "' _size=16_></span>\n";
506 # print "</span>\n";
507 # print "<input_type='hidden' _name='c' _value='INSERT' _>\n"
        ;
508 # print '<span_class="send_form_item">';
509 # 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>";
510 # print '</span>';
511 # print '</form>';
512
513 }
514
515 sub is_valid {
516     my $location = shift;
517     my $ua = LWP::UserAgent->new;
518     my $result = $ua->request(GET $location);
519     print "is_valid.\n";
520     print_r($result);
521     return 0 if ($result==0);
522     return 1 if (($result==1) || ($result==2));
523 }
524
525 sub is_paid {
526     my $c = CGI->new;
527     my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
        piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxxxxx"
        , {'RaiseError' => 1});
528     if ('GET' eq $c->request_method && $c->param('paid') eq "1"
        && $c->param('query') && $c->param('location')) {
529         $dbh->do("UPDATE_piperpal_SET_paid=_paid+_1,_modified=_
        NOW() _WHERE_name=_'" . HTML::Entities::encode($c->
        param('query')) . "' _and_location=_'" . $c->param('
        location') . "';");
530     }
531     return;
532 }
533
534 sub delete_location {
535     my $c = CGI->new;
536     my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
        piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxxxxx"
        , {'RaiseError' => 1});
537     if ('GET' eq $c->request_method && $c->param('c') eq "

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        DELETE" && $c->param('query') && $c->param('location')
        && $c->param('service')) {
538 $dbh->do ("DELETE_FROM_piperpal_WHERE_name_=" . $c->param
        ('query') . "_AND_location_=" . $c->param('location')
        ) . "_AND_service_=" . $c->param('service') . ";"");
539 }
540 return;
541 }
542
543 sub insert_location {
544     my $c = CGI->new;
545     my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
        piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxxxxxx"
        , {'RaiseError' => 1});
546     if ('GET' eq $c->request_method && $c->param('c') eq "
        INSERT" && $c->param('query') && $c->param('location')
        && $c->param('service')) {
547         # $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,_ ' " . $c->param('stripeToken') . "
        ','_ ' " . $c->param('stripeTokenType') . "',' ' " . $c->
        param('stripeEmail') . "' )_ON_DUPLICATE_KEY_UPDATE_
        modified_=_NOW();"");
548     }
549     return;
550 }
551
552 sub insert_wikipedia {
553     my $c = CGI->new;
554     print "<script>";
555     print "getWikipedia();"");
556 #function getcontent(a,b) {\n";
557 #     print "jQuery(function ($) {\n";
558 #     print "$.getJSON('http://api.geonames.org/
        findNearbyWikipediaJSON?formatted=true&lat='+_position.
        coords.latitude_+'&lng='+_position.coords.longitude_+' &
        username=username&style=full&lang=de&wikipediaUrl&
        thumbnailImg',_function(json)_{\n";
559 #     print "for (var i=_0; i<_json.geonames.length; i++)\n";
560 #     print "{\n";
561 #     print "$(\ "#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>');\n";
562 #     print "}\n";
563 #     print "});});\n";
564 #     print "});";
565 #     print "getcontent(a,b)";";
566 #     print "</script>";

```

```

567     print "<span_id='wikipedia'></span>\n";
568     # print
569     #   function getcontent(a,b) {
570     #       jQuery(function($) {
571     #           $.getJSON('http://api.geonames.org/
findNearbyWikipediaJSON?formatted=true&lat='+ a +'&lng=
'+ b +'&username=username&style=full&lang=de&
wikipediaUrl&thumbnailImg', function(json){
572
573     #               for(var i = 0; i < json.geonames.length; i++)
574     #               {
575     #                   $("#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>');
576     #                   }
577     #               }); }); }
578
579     # my $mw = MediaWiki::API->new();
580     # $mw->{config}->{api_url} = 'http://en.wikipedia.org/w/api
.php';
581
582
583     # if ($c->request_method && $c->param('glat') && $c->param(
'glon')) {
584     #     my $url = "https://en.wikipedia.org/w/api.php?action=
query&prop=extracts|coordinates|pageimages|pageterms&
colimit=50&piprop=thumbnail&pithumbsize=144&pilimit=50&
wbptterms=description&generator=geosearch&ggscoord=" .
$c->param('glat') . "|" . $c->param('glon') . "&
ggsradius=" . $c->param('radius') . "&ggslimit=50"; # &
format=json";
585     #####print_"<a href=' " . $url . "'>" . $url . "</a>";
586     #####my_($json_url)_=$url;
587     #####my_$browser_=_WWW::Mechanize->new();
588     #####eval{
589     #####_download_the_json_page:
590     #####print_"Getting json $json_url\n";
591     #####$browser->get(_$json_url);
592     #####my_$content_=_$browser->content();
593     #####my_$json_=_new_JSON;
594     #####
595     #####_these_are_some_nice_json_options_to_relax_
restrictions_a_bit:
596     #####my_$json_text_=_$json->allow_nonref->utf8->relaxed
->escape_slash->loose->allow_singlequote->allow_barekey->
decode($content);
597     #####
598     #####_iterate_over_each_episode_in_the_JSON_structure:
599     #####my_$page_num_=_1;
600     #####foreach_my_$page_(@{$json_text->{query}->{pages
}->{53445}}){

```

```

601     #####my_%ep_hash_=_( );
602     #####$ep_hash{title}_=_ "Page $page_num: $page->{title}";
603     #####$ep_hash{description}_=_ $page->{description};
604     #####$ep_hash{url}_=_ "http://en.wikipedia.org/wiki/" .
        $page->{id};
605     #     $ep_hash{publish_date} = $page->{airdate};
606     #     $ep_hash{thumbnail_url} = $page->{thumbnail}->{
        source};
607
608     #     # print page information:
609     #     while (my($k, $v) = each (%ep_hash)){
610     #         print "$k=>_ $v\n";
611     #     }
612     #     print "\n";
613
614     #     $page_num++;
615     #     }
616     # };
617     # # catch crashes:
618     # if($@){
619     #     print "[JSON_ERROR]_JSON_parser_crashed!_ $@\n";
620     # }
621     # }
622     print "</script>\n";
623 }
624
625 sub insert_publisher {
626     my $c = CGI->new;
627     my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
        piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxxxxx"
        , {'RaiseError' => 1});
628     my $q;
629     if ($c->request_method == $c->param('c') && $c->param('
        query') && $c->param('location') && $c->param('service'
        )) {
630     my @tags = ($c->param('query') =~ m/(\w+)/g);
631     my $name = $c->param('query');
632
633     foreach my $tag (@tags)
634     {
635         next unless $tag =~ m/[a-zA-záää æ é í
        öø õ úü ú ]/i;
636         $name =~ s/{$tag}{<a href="https://www.piperpal.com/
        register.cgi?name=$tag">&$tag</a>}g;
637     }
638     $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(),_NOW(),_1,_' "
        . $c->param('stripeToken') . "',' ' . $c->param('
        stripeTokenType') . "',' ' . $c->param('stripeEmail') .
        '' )_ON_DUPLICATE_KEY_UPDATE_modified=_NOW();";
639     print $q;

```

```

640     $dbh->do ($q);
641   } else {
642     # print "Error_in_inserting_data.";
643   }
644   return;
645 }
646
647 sub update_location {
648   my $c = CGI->new();
649   my $dbh = DBI->connect ("DBI:mysql:database=piperpal;host=
        piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxxxxx"
        , {'RaiseError' => 1});
650 #   $dbh->{'mysql_enable_utf8'} = 1;
651   if ($c->param('query')) {
652     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;");
653     $sth->execute();
654     while (my $ref = $sth->fetchrow_hashref()) {
655       my @tags = ($ref->{'name'} =~ m/(&(\w+)/g);
656       foreach my $tag (@tags) {
657         next unless $tag =~ m/[a-zA-záää æ é í
        öø ó úü ú ]/
        i;
658         print "<form_method='POST'_action='adverts.cgi'>";
659         print "<td>Word:</td><td><input_type='name'_name=' "
        . $tag . "'_value=' " . $tag . "'_></td>";
660         print "</form>\n";
661       }
662     }
663     $sth->finish();
664   }
665   $dbh->disconnect();
666   return;
667 }
668
669 sub insert_advertiser {
670
671   my $c = CGI->new();
672   my $dbh = DBI->connect ("DBI:mysql:database=piperpal;host=
        piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxxxxx"
        , {'RaiseError' => 1});
673 #   $dbh->{'mysql_enable_utf8'} = 1;
674   if ('GET' eq $c->request_method && $c->param('c') eq "
        INSERT" && $c->param('query') && $c->param('location')
        && $c->param('service')) {
675
676     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'))
        . "';");
677 $sth->execute();
678 while (my $ref = $sth->fetchrow_hashref()) {
679     if (is_paid($ref->{'location'})) {
680         print "<pre>UPDATE:The_location_of_" . $ref->{'name'} .
            "_" . $ref->{'location'} . "_is_a_paid_piperpal_
            location.</pre>\n";
681         $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'} .
            "';");
682         print "<pre>Paid+1</pre>\n";
683     } else {
684         print "<pre>UPDATE:The_location_of_" . $ref->{'name'} .
            "_" . $ref->{'location'} . "_is_not_a_paid_
            piperpal_location.</pre>\n";
685         $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'} .
            "';");
686         print "<pre>Paid-1</pre>\n";
687     }
688     $sth->finish();
689 }
690 }
691 $dbh->disconnect();
692 return;
693 }
694
695 sub select_publisher {
696     my $c = CGI->new;
697     my $q;
698     my $r;
699     my $s;
700     my $latitude;
701     my $longitude;
702     my $fp;
703     # my $fn = "/home/4/p/piperpal/pull.csv";
704     # my $string = "pull:" . $ENV{'REMOTE_ADDR'} . ":" . $q . "\
705     n";
706     if ($c->param('query')) {
707         $q = HTML::Entities::encode($c->param('query'));
708         # open(FH, '>', $fn) or die $!;
709         # print FH $string;
710         # print $fp;
711         # close($fp);
712     } else {
713         $q = "GoogleVisitorCenter";
714     }

```

```

714     if ($c->param('service')) {
715     $s = $c->param('service');
716     } else {
717     $s = 'Search';
718     }
719     if ($c->param('radius')) {
720     $r = $c->param('radius');
721     } else {
722     $r = 1;
723     }
724     if ($c->param('glat')) {
725     $latitude = $c->param('glat');
726     } else {
727     # FIXME: READ LATITUDE FROM JAVASCRIPT
728     $latitude = $ENV{'position.coords.latitude'};
729     # 37.8790153;
730     }
731     if ($c->param('glon')) {
732     $longitude = $c->param('glon');
733     } else {
734     # FIXME: READ LONGITUDE FROM JAVASCRIPT
735     $longitude = $ENV{'position.coords.longitude'};
736     # -122.26242529999999;
737     }
738     my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
       piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxxxxx"
       , {'RaiseError' => 1});
739     # $dbh->{'mysql_enable_utf8'} = 1;
740     my $query = "SELECT name, location, service, glat, glon,
       modified, created, paid, token, type, email FROM piperpal
       WHERE (name LIKE '%' . HTML::Entities::encode($c->param
       ('query')) . "%'_OR_service LIKE '%'" . HTML::Entities::
       encode($c->param('query')) . "%') ORDER BY modified
       DESC";
741     $query = "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, "
       " . $longitude . " AS longpoint) AS p ON 1=1 WHERE (
       name LIKE '%' . HTML::Entities::encode($c->param('query
       ')) . "%'_AND_service LIKE '%'" . $s . "%') HAVING
       distance_in_km < " . $r . " ORDER BY distance_in_km ASC
       , modified DESC";
742     my $sth = $dbh->prepare($query);
743     $sth->execute();
744     print "<table>";
745     while (my $ref = $sth->fetchrow_hashref()) {
746     print "<tr><td width='60'>&nbsp;</td><td>";
747     print "<form onsubmit='updateGeo()' method='GET' action='
       https://www.piperpal.com/cft/s/' id='formID'>";
748     lns_market_item($ref->{'name'}, $ref->{'location'}, $ref->{
       'service'}, $ref->{'glat'}, $ref->{'glon'}, $ref->{'

```

```

        modified'}, $ref->{'created'}, $ref->{'distance_in_km'
    });
749 print "<input_type='submit' _value='Buy_Location_for_' .
        $ref->{'name'} . "' />";
750 print "</form>";
751 print "</td></tr>";
752 }
753 print "</table>";
754 $sth->finish();
755 $dbh->disconnect();
756 return;
757 }
758
759 sub select_location {
760     my $c = CGI->new;
761     my $q;
762     my $r;
763     my $latitude;
764     my $longitude;
765     my $fp;
766     # my $fn = "/home/4/p/piperpal/pull.csv";
767     # my $string = "pull:" . $ENV{'REMOTE_ADDR'} . ":" . $q . "\
n";
768     if ($c->param('query')) {
769         $q = HTML::Entities::encode($c->param('query'));
770     }
771     # open(FH, '>', $fn) or die $!;
772     # print FH $string;
773     # print $fp;
774     # close($fp);
775     } else {
776         $q = "GoogleVisitorCenter";
777     }
778     if ($c->param('radius')) {
779         $r = $c->param('radius');
780     } else {
781         $r = 1;
782     }
783     if ($c->param('glat')) {
784         $latitude = $c->param('glat');
785     } else {
786         $latitude = 37.8790153;
787     }
788     if ($c->param('glon')) {
789         $longitude = $c->param('glon');
790     } else {
791         $longitude = -122.26242529999999;
792     }
793     my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
        piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxxxxx"
        , {'RaiseError' => 1});
794     # $dbh->{'mysql_enable_utf8'} = 1;
795     # my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
        piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxxxxx", {'

```

```

RaiseError' => 1});
796 # $dbh->{'mysql_enable_utf8'} = 1;
797 #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");
798 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;");
799 $sth->execute();
800 while (my $ref = $sth->fetchrow_hashref()) {
801 #print "<h3><a href='https://piperpal.com/' . $ref->{'name'}
. "'>" . $ref->{'name'} . "</a></h3>";
802 print "<form onsubmit='updateGeo()' method='GET' action='
https://www.piperpal.com/cft/s/' id='formID'>";
803 lns_market_item($ref->{'name'}, $ref->{'location'}, $ref->{
'service'}, $ref->{'glat'}, $ref->{'glon'}, $ref->{'
modified'}, $ref->{'created'});
804 print "<input type='submit' value='Buy Location for' .
$ref->{'name'} . "' />";
805 print "</form>\n";
806 }
807 $sth->finish();
808 $dbh->disconnect();
809 return;
810 }
811
812 sub select_market {
813 my $c = CGI->new;
814 my $q;
815 my $r;
816 my $latitude;
817 my $longitude;
818 if ($c->param('query')) {
819 $q = HTML::Entities::encode($c->param('query'));
820 } else {
821 $q = "GoogleVisitorCenter";
822 }
823 if ($c->param('radius')) {
824 $r = $c->param('radius');
825 } else {
826 $r = 25;
827 }
828 if ($c->param('glat')) {
829 $latitude = $c->param('glat');
830 } else {
831 $latitude = 37.8790153;

```

```

832     }
833     if ($c->param('glon')) {
834         $longitude = $c->param('glon');
835     } else {
836         $longitude = -122.26242529999999;
837     }
838     my $dbh = DBI->connect("DBI:mysql:database=piperpal;host=
        piperpal.mysql.domeneshop.no", "piperpal", "xxxxxxxxxx"
        , {'RaiseError' => 1});
839     # $dbh->{'mysql_enable_utf8'} = 1;
840     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;";
841     $query = "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_(
        name_LIKE_'%' . $q . "%'_OR_service_LIKE_'%" . $q . "
        %')_HAVING_distance_in_km_<_' . $r . "_ORDER_BY_
        distance_in_km,modified";
842     my $sth = $dbh->prepare($query);
843     $sth->execute();
844     # print "</td></tr></table><table><tr><td>";
845     while (my $ref = $sth->fetchrow_hashref()) {
846         print "<form_onsubmit='updateGeo()'_id='lnsForm'_name='
            lnsForm'_action='https://www.piperpal.com/checkout.php'_
            _method='POST'>";
847     # print "<table><tr><td_width='60'>&nbsp;   </td><td>";
848         lns_market_item($ref->{'name'}, $ref->{'location'}, $ref->{
            'service'}, $ref->{'glat'}, $ref->{'glon'}, $ref->{'
            modified'}, $ref->{'created'}, $ref->{'distance_in_km'
            });
849         print "<input_type='submit'_value='Buy_Location_for_' .
            $ref->{'name'} . "'/>";
850     # print "</td></tr></table>";
851     print "</form>";
852     }
853     print "</td></tr></table>";
854     $sth->finish();
855     $dbh->disconnect();
856     return;
857 }

```



## Chapter 3

# Query Interface for World Wide Web – [www.piperpal.com](http://www.piperpal.com)

Our working implementation of “Location Search for 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
           it's to do with a cached result coming back
185         return;
186     }
187
188     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 + ' _/>';
189     s.className = 'success';
190
191     var q = document.querySelector('#status_publisher');
192
193     if (q.className == 'success') {
194         // not sure why we're hitting this twice in FF, I think
           it's to do with a cached result coming back
195         return;
196     }
197
198     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 + ' _/>';
199
200     // '<input type=text name=glat size=16 value=' +
           position.coords.latitude + ' /><input type=text
           name=glon size=16 value=' + position.coords.
           longitude + ' />';
201     q.className = 'success';
202
203     var r = document.querySelector('#status_lns');
204
205     if (r.className == 'success') {
206         // not sure why we're hitting this twice in FF, I think
           it's to do with a cached result coming back
207         return;
208     }
209     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 + ' />';
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 (
255     marker, i) {
256     return function () {
257         infowindow.setContent(locations[i][0]);
258         infowindow.open(map, marker);
259     }
260     })(marker, i));
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%'
280         align='center'><a href="https://www.piperpal.com/"><
281         img src='/piperpal.png' alt='piperpal.com_Logo' width="
282         320" align=center/></a></td></tr>
283
284     <div class="background_form">
285 EOF
286
287 print "<tr><td_valign='top' _width='100%' _align='center'>";
288 #print "<h3>Discover_the_world_around_you_in_<span_id='
289     countdowntimer'></span>_seconds</h3>";
290 print "<script_type='text/javascript'>";
291 print "function_increase(){";
292 print "    var_counterElement=_document.getElementById
293     (\"countdowntimer\");";
294 print "    var_counter=_counterElement.textContent;";
295 print "    counter++;";
296 print "    counterElement.innerHTML=_counter;";
297 print "    }";
298 print "    window.onload=_increase;";
299 print "</script>";
300 print "<h4>12_Million_Locations_near_you</h4>";
301 print "<label_for=\"countdowntimer\">Location_Search_progress</
302     label>";
303 print "<progress_id=\"countdowntimer\"_max=\"50\"_value=\"
304     window.onload\">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>\"+_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");\n";
303 print "<!--document.write(\"<p>\"+_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 "<p>We_know_where_you_are._.Now,_tell_us_what_you_are_
      looking_for.</p>\n";
307 &Piperpal::input_searchers($c);
308 print "<a_name='results'><a_href=\"https://www.piperpal.com
      /\">\"<img_src='/piperpal.png' _alt='piperpal.com_Logo' _width
      =\"320\" _align=center/></a><br_/_>
309 <h3><a_href=\"https://www.piperpal.com/\">Location_Search_
      Results</a></h3></a>";
310 &Piperpal::select_publisher();
311 print "<br_/_>";
312 print "<br_/_>";
313 print "<br_/_>";
314 print "<br_/_>";
315 print "<br_/_>";
316 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_
      />";
317 print "<a_href=\"https://www.aamotsoftware.com/location.html\">
      https://www.aamotsoftware.com/location.html</a></p>";
318 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>";
319 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>";
320 #print "<h2>Wikipedia_Location-aware_Content</h2>";
321 #&Piperpal::insert_wikipedia();
322 #print "</td></tr><tr><td_valign='top'_width=512>";
323 #print "<h3>Be_discovered_by_the_world_around_you</h3>";
324 #print "<p>Submit_entries_in_Piperpal\'s_Location-aware_Search_
Engine</p>";
325 #&Piperpal::input_publisher();
326 #&Piperpal::insert_publisher();
327 print '<h3>News</h3>';
328 print '<p><b>2022</b></p>';
329 print '<p><a_href="https://www.aamotsoftware.com/">Aamot_
Software</a>\'s_Location_Entries_can_be_ordered_for_$0.43_
USD_per_location_at_<a_href="https://www.piperpal.com/
google.html">https://www.piperpal.com/google.html</a>';
330 print '<p><b>2021</b></p>';
331 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>';
332 print '<p><b>2020</b></p>';
333 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>';
334 print '<p><b>2015</b></p>';
335 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>';
336 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>';
337 #<tr><td width=60>&nbsp;&nbsp;&nbsp;</td><td><p>Copyright &copy; 2015-2022
<a href='http://www.aamotsoftware.com/'>Ole Aamot Software
</a>";

```



```
338 print "</td></tr></table>\n";
339 #print "<p>Copyright_&copy;_2018_<a_href=\"https://www.
      aamotsoftware.com/\">Ole_Aamot_Software</a></p>";
340 print "</body>\n</html>\n";
```



## Chapter 4

# Query Interface API for 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 },30000);
57
58 });
59 </script>
60 </body>
61 </html>

```

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

```

1
2 <?php

```

```

3 $db = mysqli_connect("piperpal.mysql.domeneshop.no", "piperpal",
  "xxxxxxxxxx", "piperpal");
4 $query = "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 " . $_POST['glat'] . " AS latpoint, " . $_POST['
  glon'] . " AS longpoint) AS p ON 1=1 WHERE name = " .
  $_POST['name'] . "% OR service LIKE " . $_POST['service'
  ] . "% HAVING distance_in_km < " . $_POST['radius'] . "
  ORDER BY distance_in_km ASC, modified DESC";
5 $result = $db->query($query);
6 $num_coords = mysqli_num_rows($result);
7 if ($num_coords == 0) {
8     print "<form onSubmit='updateGeo()' id='lnsForm' name='
  lnsForm' action='https://www.piperpal.com/checkout.php'
  method='POST'>";
9     print "<input type='hidden' name='c' value='INSERT' />\n";
10    print "<table cellpadding=5><tr>";
11    print "<td><a href='http://piperpal.com/" . $_POST['name']
  . "'><img border=0 width=16 height=16 src='/js-icon.png
  '/></td>";
12    print "<td><input size=16 type=text name=name class=
  biginput id=name placeholder='Name' value=' " . $_POST['
  name'] . "' /></td>\n";
13    print "<td><input size=20 type=text name=location class=
  biginput id=location placeholder='http://' value=' " .
  $_SERVER['HTTP_REFERER'] . "' /></td>\n";
14    print "<td><input size=16 type=text name=service class=
  biginput id=service placeholder='Service' value=' " .
  $_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'] . "%" . $_POST['service']
  . " (USD 0.43)' data-image='/128x128.png'></script></td
  >";
17    print "</tr>\n";
18    print "</form>\n";
19 } else {
20     print "var locations = { \"locations\": { \"_+\"";
21     while($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

```

```
23     . "',_glat:_' " . $object->glat . "',_glon:_' " . $object  
24     ->glon . "',_distance:_' " . $object->distance_in_km . "  
25     ',_paid:_' " . $object->paid . "',_token:_' " . $object->  
26     token . "',_type:_' " . $object->type . "',_email:_' " .  
        $object->email . "'_}\n";  
    }  
    print "]]";  
    }  
    ?>
```

## Chapter 5

# Location Search for 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-
hijack it.
94     var form = document.getElementById('form');
95     form.submit();
96 }
97 </script>
98 <meta http-equiv="Content-Type" content="text/html;_charset
=UTF-8" >
99 <meta http-equiv="X-UA-Compatible" content="IE=edge" >
100 <link href='//fonts.googleapis.com/css?family=Titillium+Web
:300italic,400,700,400italic,600italic' rel='stylesheet
' type='text/css'>
101 <link href='//fonts.googleapis.com/css?family=Titillium+Web
:300italic,400,700,400italic,600italic' rel='stylesheet
' type='text/css'>
102
103 <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/
themes/smoothness/jquery-ui.css">
104 <script src="//code.jquery.com/jquery-1.10.2.js"></script>
105 <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></
script>
106
107 <script type="text/javascript" src="https://www.piperpal.
com/jquery-1.9.1.min.js"></script>
108 <script type="text/javascript" src="https://www.piperpal.
com/jquery.autocomplete.min.js"></script>
109 <script type="text/javascript" src="https://www.piperpal.
com/piperpal-autocomplete.php"></script>
110 <script type="text/javascript" src="https://www.piperpal.
com/piperpal-autocomplete-names.php"></script>
111 <script type="text/javascript" src="https://www.piperpal.
com/piperpal-autocomplete-services.php"></script>
112 <script type="text/javascript" src="https://www.piperpal.
com/piperpal-autocomplete-locations.php"></script>
113 <script type="text/javascript" src="https://www.piperpal.
com/piperpal-autocomplete-queries.php"></script>
114 <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
        it's to do with a cached result coming back
132     return;
133   }
134
135   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 + ' _/>';
136   s.className = 'success';
137
138   var q = document.querySelector('#status_publisher');
139
140   if (q.className == 'success') {
141     // not sure why we're hitting this twice in FF, I think
        it's to do with a cached result coming back
142     return;
143   }
144
145   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 + ' _/>';
146
147   // '<input type=text name=glat size=16 value=' +
        position.coords.latitude + ' /><input type=text
        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 //' <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 + ' />';
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, 18.6704999999999947000, 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>

### 5.4 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.
      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     <!--[if lt IE 9]>
16     <link href="/css/airglyphs-ie8-9
17         f053f042e0a4f621cbc0cd75a0a520c.css" media="all"
18         rel="stylesheet" type="text/css" />
19     <![endif]-->
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         d6afd8fe9fdf1ce357f6b864c83979.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");

```

```

49 <!--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_ />"); -->
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>

```

## 5.5 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.
  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     <!--[if lt IE 9]>
16     <link href="/css/airglyphs-ie8-9
17         f053f042e0a4f621cbc0cd75a0a520c.css" media="all"
18         rel="stylesheet" type="text/css" />
19     <![endif]-->
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         d6afd8fe9fdf1ce357f6b864c83979.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");

```

```

49 <!--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_ />"); -->
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>

```

## 5.6 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.
    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     <!--[if lt IE 9]>
16     <link href="/css/airglyphs-ie8-9
17         f053f042e0a4f621cbc0cd75a0a520c.css" media="all"
18         rel="stylesheet" type="text/css" />
19     <![endif]-->
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         d6afd8fe9fdf1ce357f6b864c83979.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");

```

```

49     <!--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_/>"); -->
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>

```

## 5.7 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     <!--[if lt IE 9]>
16     <link href="/css/airglyphs-ie8-9
17         f053f042e0a4f621cbc0cd75a0a520c.css" media="all"
18         rel="stylesheet" type="text/css" />
19     <![endif]-->
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         d6afd8fe9fdf1ce357f6b864c83979.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");

```

```

49 <!--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_>"); -->
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 for World Wide Web – [api.piperpal.com/location](https://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";
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 | ?&gt;

## 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", "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 ?>

```

## 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", "xxxxxxx", "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 for World Wide Web – [api.piperpal.com/resolver/](https://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/](https://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     input.invalid, textarea.invalid{
64     border: 2px solid red;
65     }
66
67
68     input.valid, textarea.valid{
69     border: 2px solid green;
70     }
71 </style>
72 <body>
73 <!-- JavaScript Code -->
74 <script>
75     $(document).ready(function() {
76     <!-- Real-time Validation -->
77     <!--Name can't be blank-->
78     _____$('#name').on('input', function() {
79     _____var input=$(this);
80     _____var is_name=input.val();
81     _____if(is_name){input.removeClass("invalid").addClass("valid
82     _____");}
83     _____else{input.removeClass("valid").addClass("invalid");}
84     _____});
85     <!--Email must be an email-->
86     _____$('#email').on('input', function() {
87     _____var input=$(this);
88     _____var re=/^[a-zA-Z0-9.!#$%&'*/+=?^_`{|}~-]+@[a-zA-Z0
89     _____-9-]+(?:\.[a-zA-Z0-9-]+)*$/;
89     _____var is_email=re.test(input.val());
90     _____if(is_email){input.removeClass("invalid").addClass("valid
91     _____");}
92     _____else{input.removeClass("valid").addClass("invalid");}
93     _____});
94     <!--Website must be a website -->
95     _____$('#location').on('input', function() {
96     _____var input=$(this);
97     _____if (input.val().substring(0,4)=='www.'){input.val('http
98     _____://www.'+input.val().substring(4));}
98     _____var re = /(http|ftp|https):\/\/\.[\w-]+(\.[\w-]+)+([\w.,@
99     _____?^=%&#;\/~+#+-]*[\w@?^=%&#;\/~+#+-])?/;
99     _____var is_url=re.test(input.val());
100    _____if(is_url){input.removeClass("invalid").addClass("valid"
101    _____);}
102    _____else{input.removeClass("valid").addClass("invalid");}
103    _____});
104    <!--Message can't be blank-->
105    _____$('#service').keyup(function(event) {
106    _____var input=$(this);
107    _____var message=$(this).val();
108    _____console.log(message);
109    _____if(message){input.removeClass("invalid").addClass("valid
110    _____");}

```

```

110     } else { input.removeClass("valid").addClass("invalid"); }
111     }
112
113     <!--_After_Form_Submitted_Validation-->
114     $("#submit_button").click(function(event) {
115         var form_data = $("#name").serializeArray();
116         var error_free = true;
117         for (var input_in_form_data) {
118             var element = $("#name_" + form_data[input]['name']);
119             var valid = element.hasClass("valid");
120             var error_element = $("span", element.parent());
121             if (!valid) { error_element.removeClass("error").addClass("error_show"); error_free = false; }
122             else { error_element.removeClass("error_show").addClass("error"); }
123         }
124         if (!error_free) {
125             event.preventDefault();
126         }
127         else {
128             alert('No errors: Form will be submitted');
129         }
130     });
131 }
132 </script>
133 <h1>Piperpal</h1>
134 <form_id="form" _method="GET" _action="https://api.piperpal.com/location/push.php">
135     <table>
136     <tr>
137         <td>Text: <input_id="name" _type="text" _name="name" _placeholder="Example: _FriendliestCoffeeShop" _size="24" _/><span_class="error">This_field_is_required</span></td>
138     </tr>
139     <tr>
140         <td>Email: <input_id="email" _type="text" _name="email" _placeholder="your.name@gmail.com" _/><span_class="error">This_field_is_required</span></td>
141     </tr>
142     <tr>
143         <td>Service: <select_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>
144     </tr>
145     <tr>
146         <td>Location: <input_type="text" _name="location" _placeholder="https://yourwebsite.com/" _/></td>

```

```

147     </tr>
148     <!--
149     <tr>
150         <td>Latitude: <input type="text" name="glat" value
            ="37.4375596"></td>
151     </tr>
152     <tr>
153         <td>Longitude: <input type="text" name="glon" value
            ="-122.11922789999998"></td>
            </tr>
154     -->
155     <tr>
156         <td>Payment: <input type="text" name="paid" value="50"></
            td>
157     </tr>
158     <tr>
159         <td><input type="submit" name="Submit" value="Submit" /></td>
160     </tr>
161     </table>
162 </form>
163 <h2>Piperpal / Were / Here / After</h2>
164 <p>Peter Norvig at Google came up with <a href="https://api
.piperpal.com/location/push.php?name=GoogleResearch&service
=Search&location=https://research.google.com/&glat
=37.4375596&glon=-122.11922789999998&paid=50">&
GoogleResearch</a> at <a href="https://api.piperpal.com/
location/push.php?name=GoogleVisitorCenter&service=Search&
location=https://www.google.com/&glat=37.4375596&glon
=-122.11922789999998&paid=50">&
GoogleVisitorCenter</a>
in Palo Alto, California in 2015...</p>
165 <p>Ole Aamot 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=50">&
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=50">&
Kaffebrenneriet</a> in Oslo, Norway in 2019...</p>
166 <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=50">&
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=50">&
Tekehtopa</a> in Oslo, Norway on September 11, 2019...</p>
167 <p>We ate at <a href="https://api.piperpal.com/location/
push.php?name=TheBestLunchPlace&service=Restaurant&location
=http://www.cafediroma.no/&glat=59.9224999&glon=10.7549504&
paid=50">&
TheBestLunchPlace</a> on July 4th, 2020 which
we thought was as good as <a href="https://api.piperpal.

```

```

    com/location/push.php?name=CafediRoma&service=Restaurant&
    location=http://www.cafediroma.no/&glat=59.9224999&glon
    =10.7549504&paid=50">&CafediRoma</a>_in_Sofienberggata_6,_
    Oslo_at_12_pm...</p>
168 <<<<< p>We got similar <a href="https://api.piperpal.com/
    location/push.php?name=WarmNordicJackets&service=Clothes&
    location=http://www.stormberg.com/&glat=59.9292125&glon
    =10.7898633&paid=50">&WarmNordicJackets</a>_from_<a href="
    https://api.piperpal.com/location/push.php?name=
    StormbergOslo&service=Clothes&location=http://www.stormberg
    .com/&glat=59.9292125&glon=10.7898633&paid=50">&
    StormbergOslo</a>_which_we_thought_was_better_than_<a href
    ="https://api.piperpal.com/location/push.php?name=
    HellyHansen&service=Clothes&location=http://www.hellyhansen
    .com/&paid=50">&HellyHansen</a>_for_shorter_tours_at_6_pm_
    in_Norway_in_December_2021...</p>
169 <<<<< <script type="text/javascript" src="https://api.piperpal.
    com/location/?service=Search">
170 <<<<< </script>
171 <<<<< <script
172 <<<<<<<< src="https://code.jquery.com/jquery-3.3.1.js"
173 <<<<<<<<< integrity="sha256-2Kok7MbOyxpgUVvAk/
    HJ2jigOSYS2auK4Pfbzm7uH60="
174 <<<<<<<<< crossorigin="anonymous">
175 <<<<<<<<<< var newLink_="https://api.piperpal.com/location/?service
    =Search";
176 <<<<<<<<<< $( 'script' ).each(function() {
177 <<<<<<<<<<<< var link_=$( this ).attr( 'src' );
178 <<<<<<<<<<<<< } )
179 <<<<<<<<< </script>
180 <<<<<<<<< <script language="JavaScript">
181 <<<<<<<<<<<< var obj_=JSON.parse(locations);
182 <<<<<<<<<<<<< for_(i=0; i<_obj.locations.length; i++) {
183 <<<<<<<<<<<<<<<<<<< document.write("<p><h2><a href='https://piperpal.
    com/" + obj.locations[i].name + "'> " + obj.locations[i].
    name + "</a></h2><p>" + obj.locations[i].distance + " km
    away</p><p><b><a href=' " + obj.locations[i].location + "'>"
    + obj.locations[i].location + "</a></b></p><p><i>" + obj.
    locations[i].service + " " + "</i></p>\n");
184 <<<<<<<<<<<<<<<<<<< }
185 <<<<<<<<<<<<<<<<<<< </script>
186 <<<<<<<<<<<<<<<<<<< </td>
187 <<<<<<<<<<<<<<<<<<< </tr>
188 <<<<<<<<<<<<<<<<<<< </table>
189 <<<<<<<<<<<<<<<<<<< </body>
190 <<<<<<<<<<<<<<<<<<< </html>

```

## 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       });
47     </script>
48   </head>
49   <body>
50     
```

```

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

```



```

88     </label>
89     <select id="simple-search-price" name="paid" class="js-
          search-price">
90         <option value="1">1</option>
91     <option value="2">2</option>
92     <option value="3">3</option>
93     <option value="4">4</option>
94     <option value="5">5</option>
95     <option value="6">6</option>
96     <option value="7">7</option>
97     <option value="8">8</option>
98     <option value="9">9</option>
99     <option value="10">10</option>
100    </select>
101    </div>
102    <button type="submit" class="btn_btn-primary_btn-large_btn-
          block">
103        Search
104    </button>
105    </form>
106 </body>
107 </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-
          scale=1.0, _maximum-scale=1.0, _width=device-width">
6     <title>piperpal.com - Location-based Search Engine</title>
7     <!--[if IE]><![endif]-->
8     <!--[if IE 8]>
9       <link href="../common_o2.1_ie8-91981
          ea8f3932c01fab677a25d869e49.css" media="all" rel="
          stylesheet" type="text/css" />
10    <![endif]-->
11    <!--[if !(IE 8)]><!-->
12      <link href="../common_o2.1-858
          f47868a8d0e12dfa7eb60fa84fb17.css" media="all" rel="
          stylesheet" type="text/css" />
13    <!--<![endif]-->
14
15    <!--[if lt IE 9]>

```

```

16     <link href="../airglyphs-ie8-9
        f053f042e0a4f621cbc0cd75a0a520c.css" media="all" rel=
        "stylesheet" type="text/css" />
17 <![endif]-->
18
19     <link href="../main-f3fcc4027aaa2c83f08a1d51ae189e3b.css"
        media="screen" rel="stylesheet" type="text/css" />
20 <!--[if IE 7]>
21     <link href="../pl_ie_7-0ab7be89d3999d751ac0e89c44a0ab50.css
        " media="screen" rel="stylesheet" type="text/css" />
22 <![endif]-->
23 <!--[if IE 6]>
24     <link href="../pl_ie_6-7d6a1fd8fe9fdf1ce357f6b864c83979.css
        " media="screen" rel="stylesheet" type="text/css" />
25 <![endif]-->
26 <meta http-equiv="Content-Type" content="text/html;_charset
        =utf-8" >
27 <meta http-equiv="X-UA-Compatible" content="IE=edge" >
28 <link href="//fonts.googleapis.com/css?family=Titillium+Web
        :300italic,400,700,400italic,600italic" rel='stylesheet
        ' type='text/css'>
29 <link href="//fonts.googleapis.com/css?family=Titillium+Web
        :300italic,400,700,400italic,600italic" rel='stylesheet
        ' type='text/css'>
30 <script type="text/javascript" src="https://www.piperpal.
        com/jquery-1.9.1.min.js"></script>
31 <script type="text/javascript" src="https://www.piperpal.
        com/jquery.autocomplete.min.js"></script>
32 <!-- FIXME
33 <script type="text/javascript" src="https://www.piperpal.
        com/yaylocation-autocomplete.php"></script>
34 <script type="text/javascript" src="https://www.piperpal.
        com/piperpal-autocomplete-names.php"></script>
35 <script type="text/javascript" src="https://www.piperpal.
        com/piperpal-autocomplete-services.php"></script>
36 <script type="text/javascript" src="https://www.piperpal.
        com/piperpal-autocomplete-locations.php"></script>
37 <script type="text/javascript" src="https://www.piperpal.
        com/piperpal-autocomplete-queries.php"></script>
38 -->
39 <meta name="viewport" content="width=620" />
40 <link rel="stylesheet" href="//code.jquery.com/ui/1.11.4/
        themes/smoothness/jquery-ui.css">
41 <script src="//code.jquery.com/jquery-1.10.2.js"></script>
42 <script src="//code.jquery.com/ui/1.11.4/jquery-ui.js"></
        script>
43 <link rel="stylesheet" href="/resources/demos/style.css">
44 <script>
45     $(function() {
46         $( "#simple-search-tourin" ).datepicker();
47         $( "#simple-search-tourout" ).datepicker();
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_
102         class="input_form_custom" _name=glat_size=16_value='
103         + position.coords.latitude + ' _/><br_/><img_src="
104         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,
            17.183333299999960000, 4],
110        ['Tuzla', 44.532841000000000000, 18.670499999999947000, 5],
111        ['Zenica', 44.203439200000000000, 17.907743200000027000,
            3],
112        ['Sarajevo', 43.850000000000000000, 18.250000000000000000,
            2],
113        ['Mostar', 43.333333300000000000, 17.799999999999954000, 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');
170
171     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="
        input_form_custom"_name=glat_value=' + position.
        coords.latitude + ' /><input_type=hidden_class="
        input_form_custom"_name=glon_value=' + position.
        coords.longitude + ' />';
174     s.className = 'success';
175
176     var q = document.querySelector('#status_publisher');
177
178     if (q.className == 'success') {
179         // not sure why we're hitting this twice in FF, I think
180         // it's to do with a cached result coming back
181         return;
182     }
183     q.innerHTML = '<div_class="service_form_input_form"><
        img_src="img/icon2.png"_alt="Icon2"_class="
        icon_form"_height="36"_width="36"><input_type=text_
        class="input_form_custom"_name=glat_size=16_value='
        + position.coords.latitude + ' /></div><div_class
        ="service_form_input_form"><img_src="img/icon2.png"
        _alt="Icon2"_class="icon_form"_height="36"_width
        ="36"><input_type=text_class="input_form_custom"
        name=glon_size=16_value=' + position.coords.
        longitude + ' /></div>';
184
185     // '<input type=text name=glat size=16 value=' +
        position.coords.latitude + ' /><input type=text
        name=glon size=16 value=' + position.coords.
        longitude + ' />';
186     q.className = 'success';
187
188     var mapcanvas = document.createElement('div');
189     mapcanvas.id = 'mapcanvas';
190     mapcanvas.style.height = '400px';
191     mapcanvas.style.width = '640px';
192
193     document.querySelector('article').appendChild(mapcanvas);
194
195     var latlng = new google.maps.LatLng(position.coords.
        latitude, position.coords.longitude);
196     var myOptions = {
197         zoom: 15,
198         center: latlng,
199         mapTypeControl: false,
200         navigationControlOptions: {style: google.maps.
        NavigationControlStyle.SMALL},
201         mapTypeId: google.maps.MapTypeId.ROADMAP
202     };

```

```
203     var map = new google.maps.Map(document.getElementById("
204         mapcanvas"), myOptions);
205
206     var marker = new google.maps.Marker({
207         position: latlng,
208         map: map,
209         title:"You_are_here!_(at_least_within_a_+
210             position.coords.accuracy+"_meter_radius)"
211     });
212
213     var locations = [
214         ['Banja_Luka', 44.76666669999990000,
215             17.183333299999960000, 4],
216         ['Tuzla', 44.532841000000000000, 18.670499999999947000, 5],
217         ['Zenica', 44.203439200000000000, 17.907743200000027000,
218             3],
219         ['Sarajevo', 43.850000000000000000, 18.250000000000000000,
220             2],
221         ['Mostar', 43.333333300000000000, 17.799999999999954000, 1]
222     ];
223
224     var infowindow = new google.maps.InfoWindow();
225
226     var marker, i;
227     for (i = 0; i < locations.length; i++) {
228         marker = new google.maps.Marker({
229             position: new google.maps.LatLng(locations[i][1],
230                 locations[i][2]),
231             map: map
232         });
233
234         google.maps.event.addListener(marker, 'click', (function (
235             marker, i) {
236                 return function () {
237                     infowindow.setContent(locations[i][0]);
238                     infowindow.open(map, marker);
239                 }
240             })(marker, i));
241     }
242 }
243
244 function error(msg) {
245     var s = document.querySelector('#status');
246     s.innerHTML = typeof msg == 'string' ? msg : "failed";
247     s.className = 'fail';
248
249     // console.log(arguments);
250 }
251
252 if (navigator.geolocation) {
253     navigator.geolocation.getCurrentPosition(success, error);
254 } else {
255     error('not_supported');
256 }
```

```

250 </script>
251 <form onsubmit='updateGeo()' id="searchbar-form" method='
252     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_9UbKhDJJWaAFnMjYQTBA8I9i00H8Z5eMmL'
    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 + '&glon=' + glon + '&paid=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         i = i + 1
47         piperpal_resolver(href,s,n,lat,lon)
48     return (y,i)
49
50 def haversine(lat1, lon1, lon2, lat2):
51     """
52     Calculate the great circle distance between two points
53     on the earth (specified in decimal degrees)
54     """
55     # convert decimal degrees to radians
56     lon1, lat1, lon2, lat2 = map(radians, [lon1, lat1, lon2,
57         lat2])
58
59     # haversine formula
60     dlon = lon2 - lon1
61     dlat = lat2 - lat1
62     a = sin(dlat/2)**2 + cos(lat1) * cos(lat2) * sin(dlon/2)**2
63     c = 2 * asin(sqrt(a))
64     r = 6371 # Radius of earth in kilometers. Use 3956 for
65         miles
66     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