



Application Development for Mobile and Ubiquitous Computing

Seminar Task: Global Weather

Second Presentation

GroupNo.13

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Three ways to search weather condition :

Manual Input

Positioning Searching

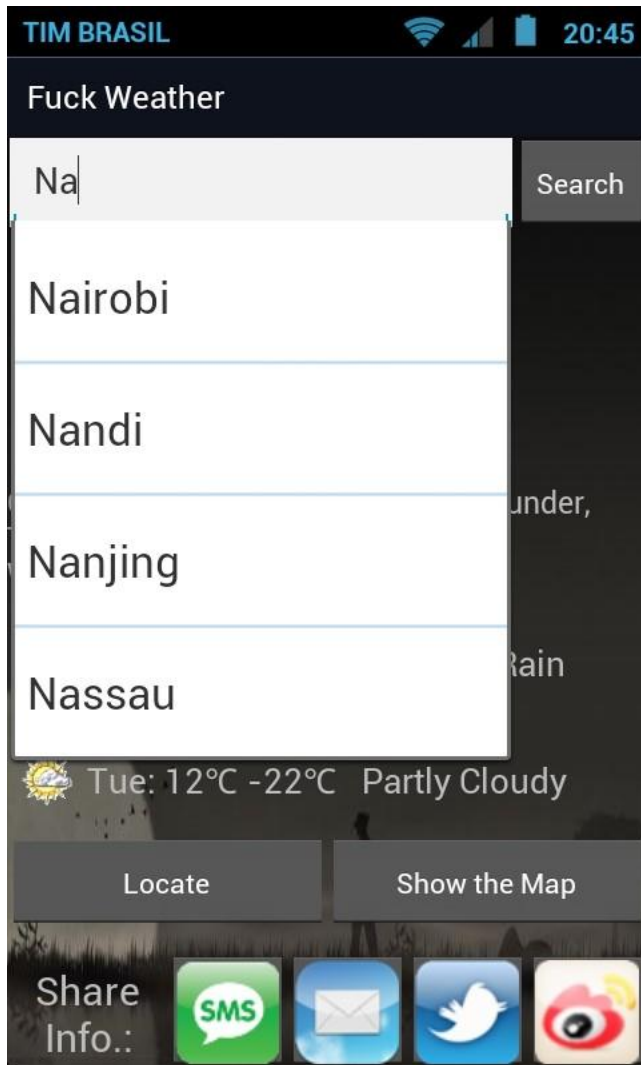
Google Map Searching

Manual Input



Just input the name of city
which you want to get the
weather condition

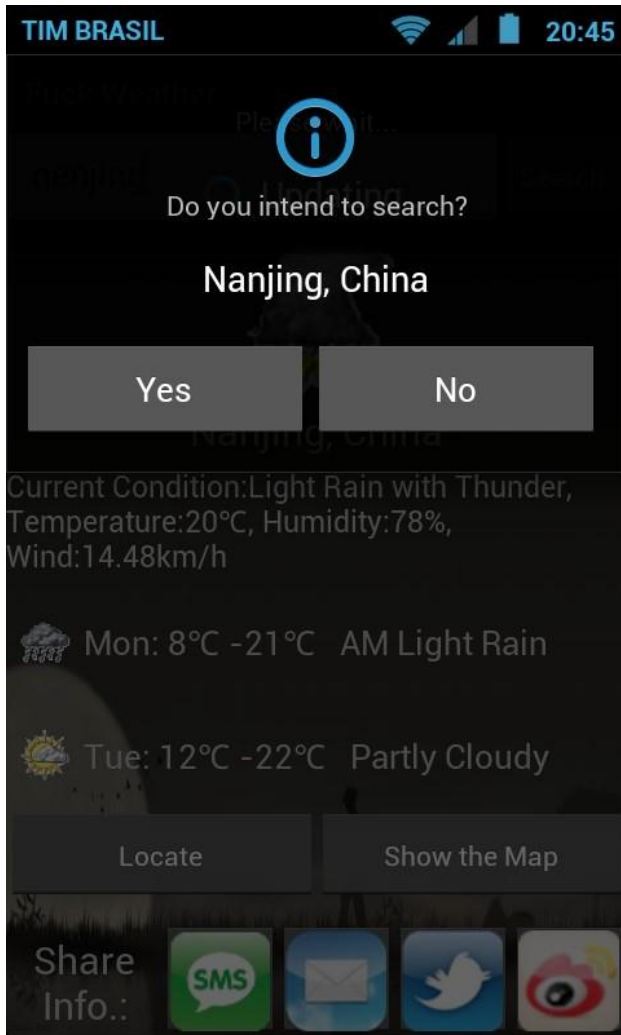
Manual Input



Our application supports smart matching.

For example, when you input Na, the drop-down box will automatically appear similar match.

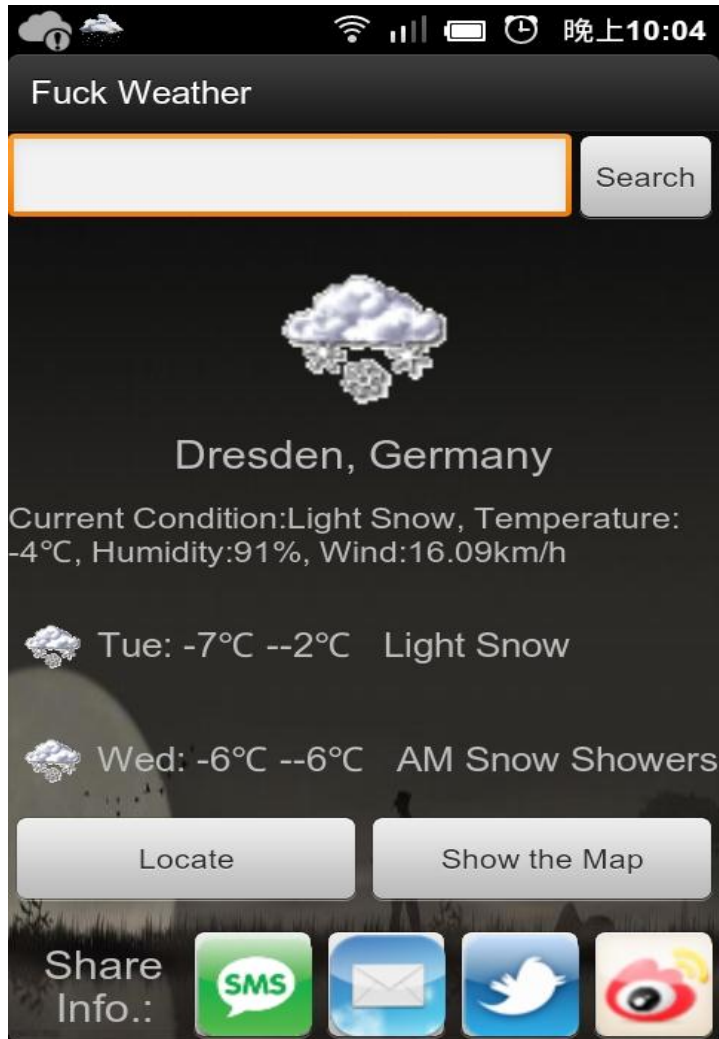
Manual Input



Our application supports smart correction.

If you input the wrong name of the city, the application will notice you the correct spelling of the city name.

Positioning Searching



Just click the “locate” button, the application will automatically get your location and download the weather condition from the Internet.

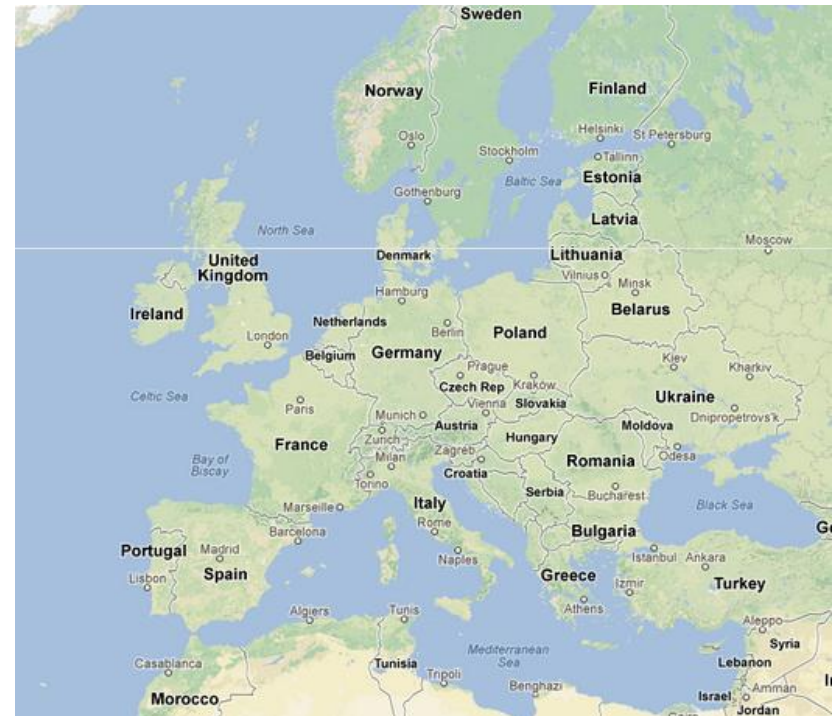
Google Map



Click the “map” button, the Google map will appear.

Click any place you want, the weather condition will show in the screen!

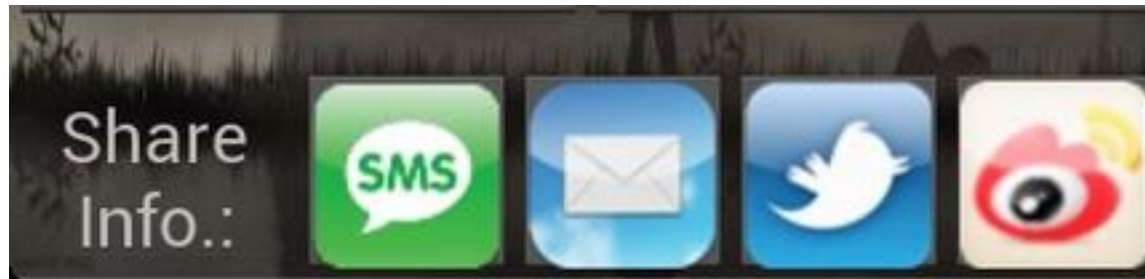
(Do not complete the function yet)



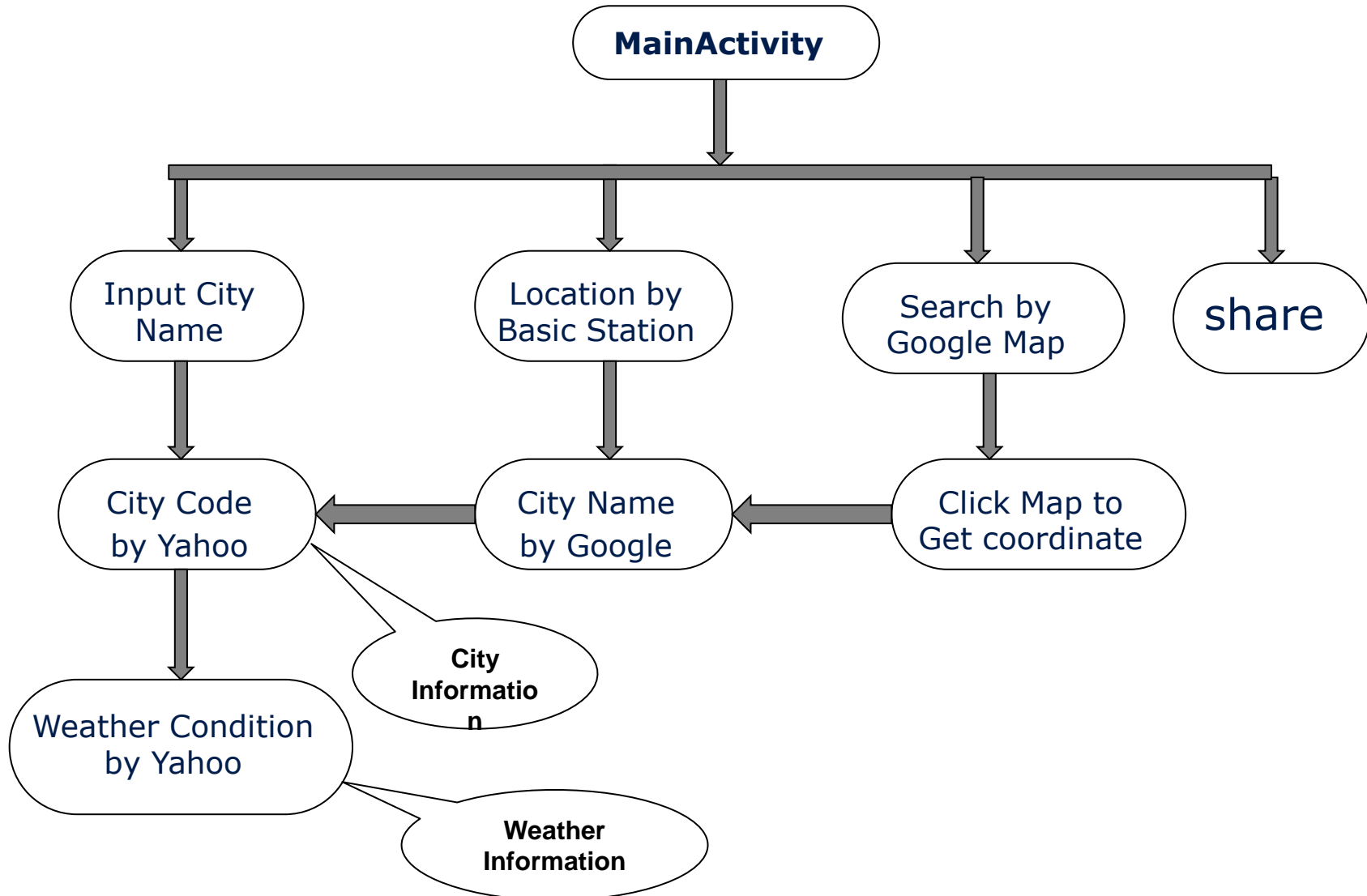
Share Information

You would send or share your searching weather information by short message, Email, Twitter, weibo!

(Do not complete the function yet)



Structure of the Application



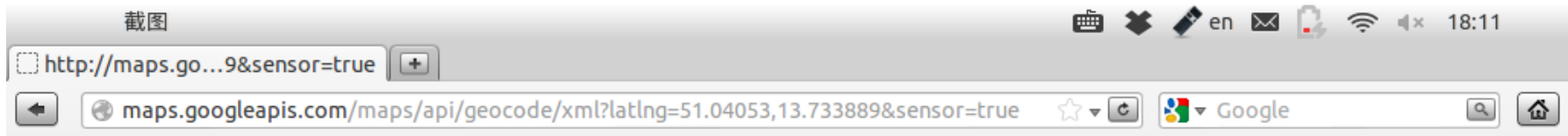
Mozilla Firefox

en 18:06

http://where....IQzVRjwpHabG7

where.yahooapis.com/v1/places.q('Dresden')?appid=9lsw1fzV34GYrVUJ_b.riFibTURPSBhzt Google

```
- <places yahoo:start="0" yahoo:count="1" yahoo:total="18">
- <place yahoo:url="http://where.yahooapis.com/v1/place/645686" xml:lang="en-US">
  <woeid>645686</woeid>
  <placeTypeName code="7">Town</placeTypeName>
  <name>Dresden</name>
  <country type="Country" code="DE" woeid="23424829">Germany</country>
  <admin1 type="Land" code="DE-SN" woeid="2345493">Saxony</admin1>
  <admin2 type="District" code="" woeid="12596943">Kreisfreie Stadt Dresden</admin2>
  <admin3/>
  <locality1 type="Town" woeid="645686">Dresden</locality1>
  <locality2/>
  <postal/>
- <centroid>
  <latitude>51.053631</latitude>
  <longitude>13.740810</longitude>
</centroid>
- <boundingBox>
- <southWest>
  <latitude>50.978741</latitude>
  <longitude>13.586580</longitude>
</southWest>
- <northEast>
  <latitude>51.180500</latitude>
  <longitude>13.972610</longitude>
</northEast>
</boundingBox>
  <areaRank>6</areaRank>
  <popRank>12</popRank>
</place>
</places>
```



```
-<GeocodeResponse>
  <status>OK</status>
  -<result>
    <type>route</type>
    <formatted_address>Am Hauptbahnhof, 01069 Dresden, Germany</formatted_address>
    -<address_component>
      <long_name>Am Hauptbahnhof</long_name>
      <short_name>B170</short_name>
      <type>route</type>
    </address_component>
    -<address_component>
      <long_name>Altstadt</long_name>
      <short_name>Altstadt</short_name>
      <type>sublocality</type>
      <type>political</type>
    </address_component>
    -<address_component>
      <long_name>Dresden</long_name>
      <short_name>Dresden</short_name>
      <type>locality</type>
      <type>political</type>
    </address_component>
    -<address_component>
      <long_name>Dresden</long_name>
      <short_name>DD</short_name>
      <type>administrative_area_level_2</type>
      <type>political</type>
    </address_component>
    -<address_component>
      <long_name>Sachsen</long_name>
      <short_name>SN</short_name>
      <type>administrative_area_level_1</type>
      <type>political</type>
    </address_component>
    -<address_component>
      <long_name>Germany</long_name>
```

截图

en 18:09

```

1 <?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
2   <rss version="2.0" xmlns:yweather="http://xml.weather.yahoo.com/ns/rss/1.0" xmlns:geo="http://www.w3.org/2003/01/geo/wgs84_pos#">
3     <channel>
4
5     <title>Yahoo! Weather - Dresden, DE</title>
6     <link>http://us.rd.yahoo.com/dailynews/rss/weather/Dresden_DE/*http://weather.yahoo.com/forecast/GMXX0025_c.html</link>
7     <description>Yahoo! Weather for Dresden, DE</description>
8     <language>en-us</language>
9     <lastBuildDate>Tue, 11 Dec 2012 5:19 pm CET</lastBuildDate>
10    <ttl>60</ttl>
11    <yweather:location city="Dresden" region="SN" country="Germany"/>
12    <yweather:units temperature="C" distance="km" pressure="mb" speed="km/h"/>
13    <yweather:wind chill="-8" direction="290" speed="16.09" />
14    <yweather:atmosphere humidity="100" visibility="2.49" pressure="1015.92" rising="0" />
15    <yweather:astronomy sunrise="7:58 am" sunset="3:56 pm"/>
16    <image>
17    <title>Yahoo! Weather</title>
18    <width>142</width>
19    <height>18</height>
20    <link>http://weather.yahoo.com</link>
21    <url>http://l.yimg.com/a/i/brand/purplelogo//uh/us/news-wea.gif</url>
22    </image>
23    <item>
24    <title>Conditions for Dresden, DE at 5:19 pm CET</title>
25    <geo:lat>51.05</geo:lat>
26    <geo:long>13.74</geo:long>
27    <link>http://us.rd.yahoo.com/dailynews/rss/weather/Dresden_DE/*http://weather.yahoo.com/forecast/GMXX0025_c.html</link>
28    <pubDate>Tue, 11 Dec 2012 5:19 pm CET</pubDate>
29    <yweather:condition text="Light Snow" code="14" temp="-3" date="Tue, 11 Dec 2012 5:19 pm CET" />
30    <description><![CDATA[
31    <br />
32    <b>Current Conditions:</b><br />
33    Light Snow, -3 C<br />
34    <br /><b>Forecast:</b><br />
35    Tue - Light Snow. High: -2 Low: -7<br />
36    Wed - AM Snow Showers. High: -6 Low: -6<br />
37    <br />
38    <a href="http://us.rd.yahoo.com/dailynews/rss/weather/Dresden_DE/*http://weather.yahoo.com/forecast/GMXX0025_c.html">Full Forecast at Yahoo! Weather</a><br/><br/>
39    (provided by <a href="http://www.weather.com">The Weather Channel</a><br/>
40    ]]></description>
41    <yweather:forecast day="Tue" date="11 Dec 2012" low="-7" high="-2" text="Light Snow" code="14" />
42    <yweather:forecast day="Wed" date="12 Dec 2012" low="-6" high="-6" text="AM Snow Showers" code="14" />
43    <guid isPermaLink="false">GMXX0025_2012_12_12_7_00_CET</guid>
44    </item>
45  </channel>

```

Challenges

No Experience

API Searching

Information Processing

Work Plan

1. Getting the weather condition by Google Map.
2. Complete the function of sharing weather information.
3. Do more test and find bugs.