1. **Android Application: Weather Forecast**
   - The LOCATION textbox may be given an input of city, state/country or Zip Code. Clicking on the SEARCH button will check the validity of the format “city, state and/or country (as there can be many cities having same name) or 5-digit US zip code. If such a location is found, the output would be as shown below.
   - One may select the temperature unit type by checking the radio button.
   - One may share the current weather or weather forecast table on Facebook by clicking on SHARE CURRENT WEATHER or SHARE WEATHER FORECAST.
2. **Web Application demonstrating the current and next five days weather forecast of Los Angeles.**
   - The LOCATION textbox may be given an input of city, state/country or Zip Code. Clicking on the SEARCH button will check the validity of the format “city, state and/or country (as there can be many cities having same name) or 5-digit US zip code. If such a location is found, the output would be as shown below.
   - Clicking on “C” (present on the side of current weather in bigger font) will toggle the temperature unit to Fahrenheit.
   - There is Facebook integration which allows the user to post current weather or the weather forecast on their wall.

![Web Application Demonstration](image-url)
3. **Online Retailer Data Management System**

This project writes a JAVA program which uses JDBC to query relational database. The completed program queries the database to provide the following functionalities:

**Example: Range Query Search using Oracle Spatial Java API**

Once the user clicks on the “Range Query Search” button, a new window will pop up. Then when user inputs the Range “Top Left X, Top Left Y”, “Bottom Right X, Bottom Right Y”, all the seller’s located within this spatial range should be shown in the result panel.
4. **Team Selector**

- Worked on a side project where users can build their fantasy cricket team and earn points based on the performance of their players.
- The player may see live scores, latest highlights and tweets from various cricketers.
5. **PHP/XML Parsing**

- Developed a PHP program, which takes the city or zip code as input, extract weather and geological information using XML parsing on Yahoo! GeoPlanet and Yahoo! Weather RSS feed and displaying the information in tabular format.
- Click on DETAILS to redirect to Yahoo Weather for that particular city/zip.
- Click on IMAGE to get the Yahoo! Weather RSS feed.

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**Figure 7 Weather of all cities named Los Angeles**

<table>
<thead>
<tr>
<th>Weather</th>
<th>Temperature</th>
<th>City</th>
<th>Region</th>
<th>Country</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Link to details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Party Cloudy</td>
<td>25°C</td>
<td>Los Angeles</td>
<td>CA</td>
<td>United States</td>
<td>34.11</td>
<td>-118.41</td>
<td>DETAILS</td>
</tr>
<tr>
<td>Clear</td>
<td>28°C</td>
<td>Colonia Los Angeles</td>
<td>NA</td>
<td>Spain</td>
<td>40.6</td>
<td>-1.78</td>
<td>DETAILS</td>
</tr>
<tr>
<td>Fair</td>
<td>27°C</td>
<td>Los Angeles</td>
<td>TX</td>
<td>United States</td>
<td>28.48</td>
<td>-99.0</td>
<td>DETAILS</td>
</tr>
<tr>
<td>Mostly Cloudy</td>
<td>32°C</td>
<td>Los Angeles</td>
<td>HO</td>
<td>C elevated</td>
<td>21.01</td>
<td>-75.71</td>
<td>DETAILS</td>
</tr>
</tbody>
</table>

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**Figure 8 Weather of Los Angeles, CA**

<table>
<thead>
<tr>
<th>Weather</th>
<th>Temperature</th>
<th>City</th>
<th>Region</th>
<th>Country</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Link to details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Party Cloudy</td>
<td>77°F</td>
<td>Los Angeles</td>
<td>CA</td>
<td>United States</td>
<td>34.11</td>
<td>-118.41</td>
<td>DETAILS</td>
</tr>
</tbody>
</table>
Figure 9 Weather of zipcode 90007