ASE CS 5551 Lab Assignment 5

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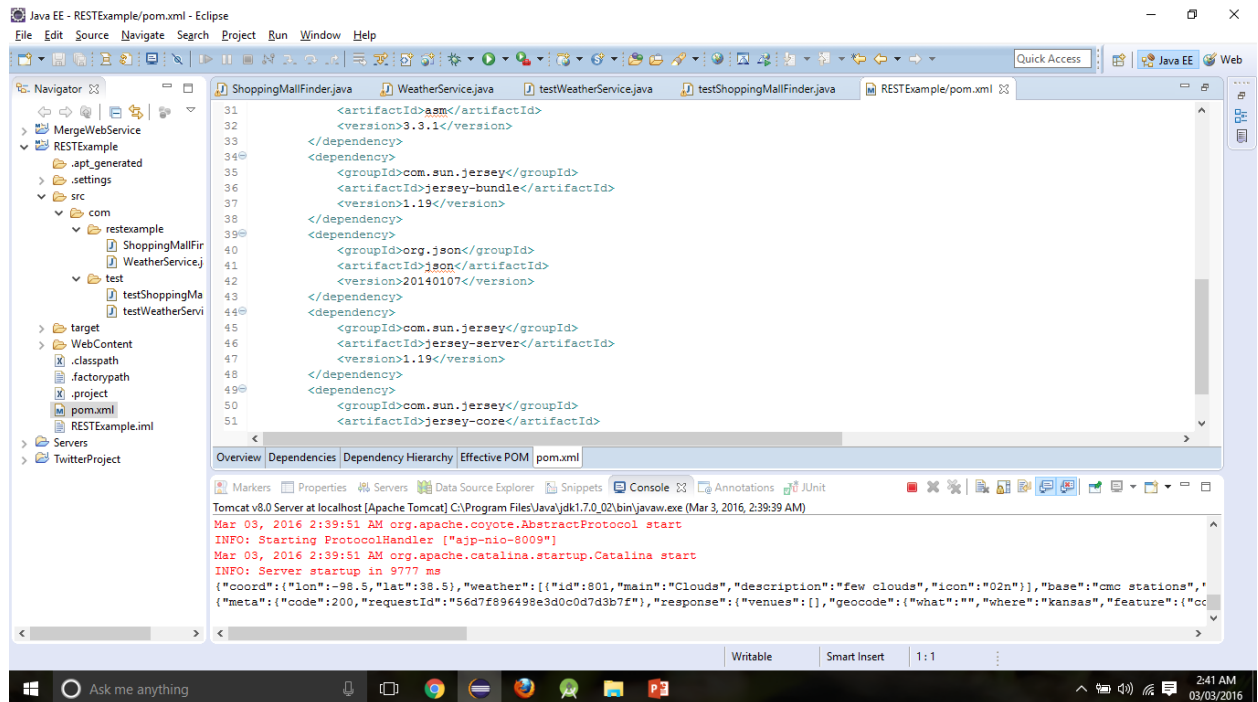
Class ID: 43

Application Name: RESTExample

Purpose:

This web service application demonstrate how to use jersey framework for developing web service and how to do Junit testing of java classes.
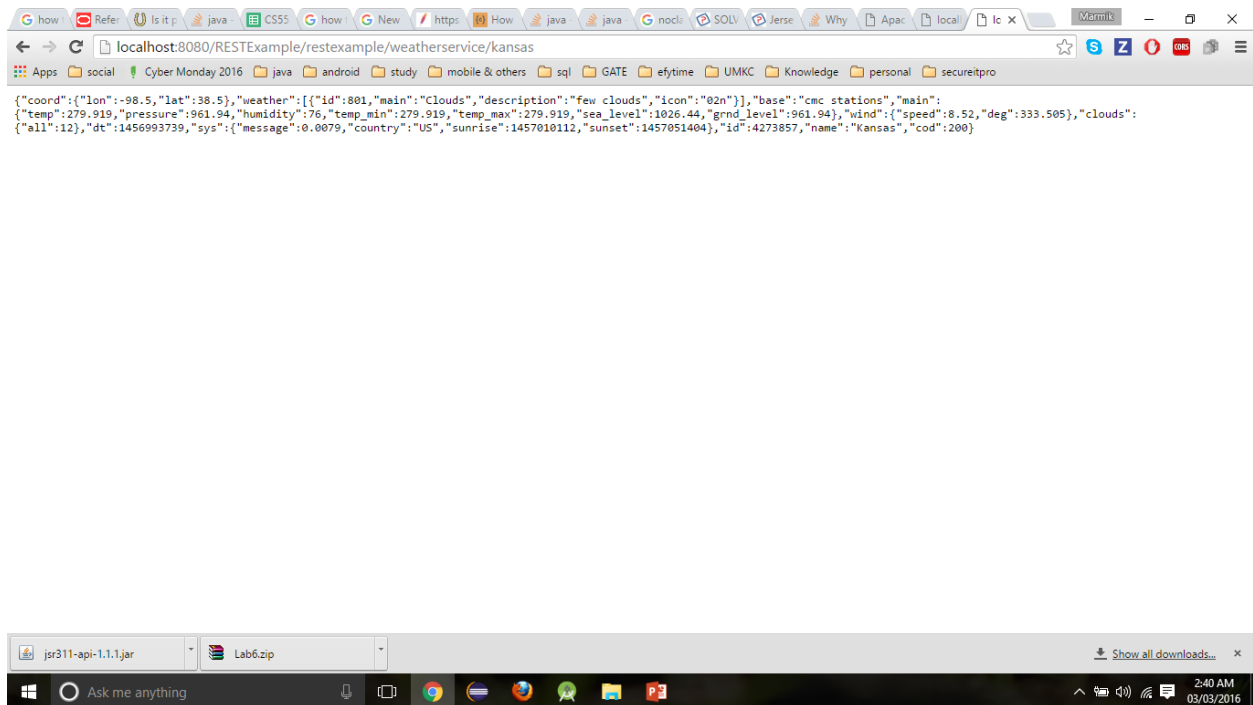
Here, we can access two web service in single application by changing URL.
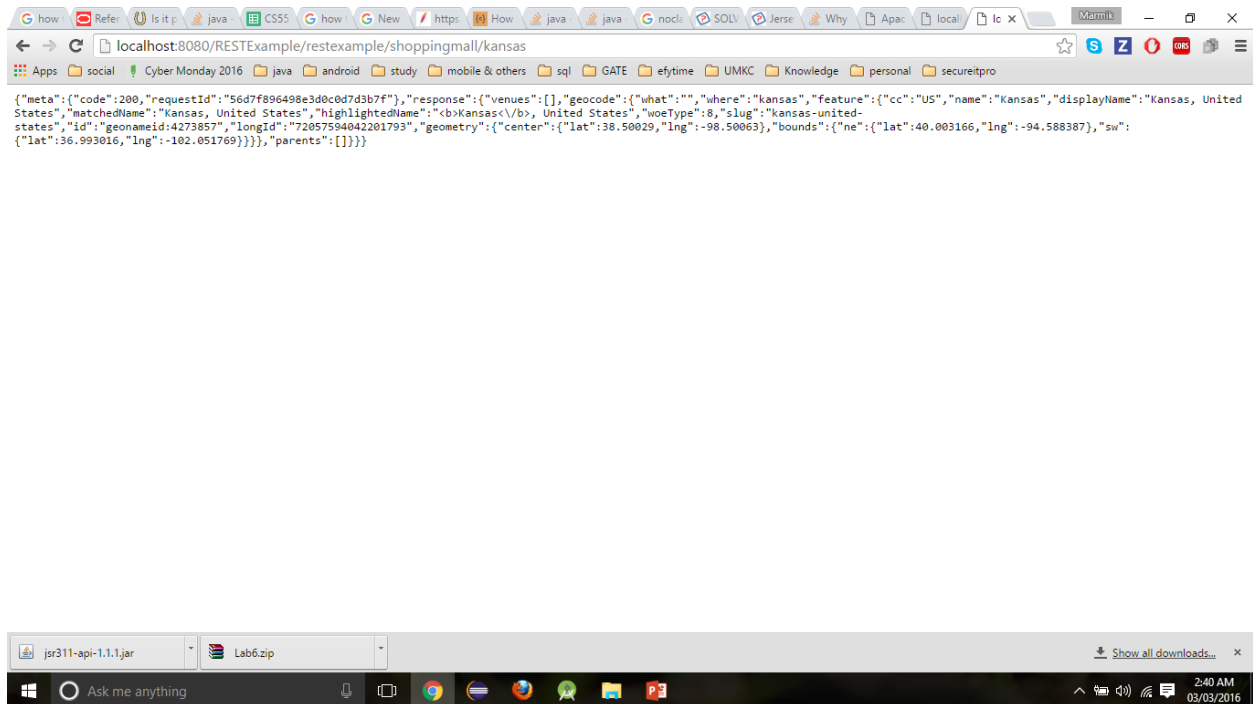
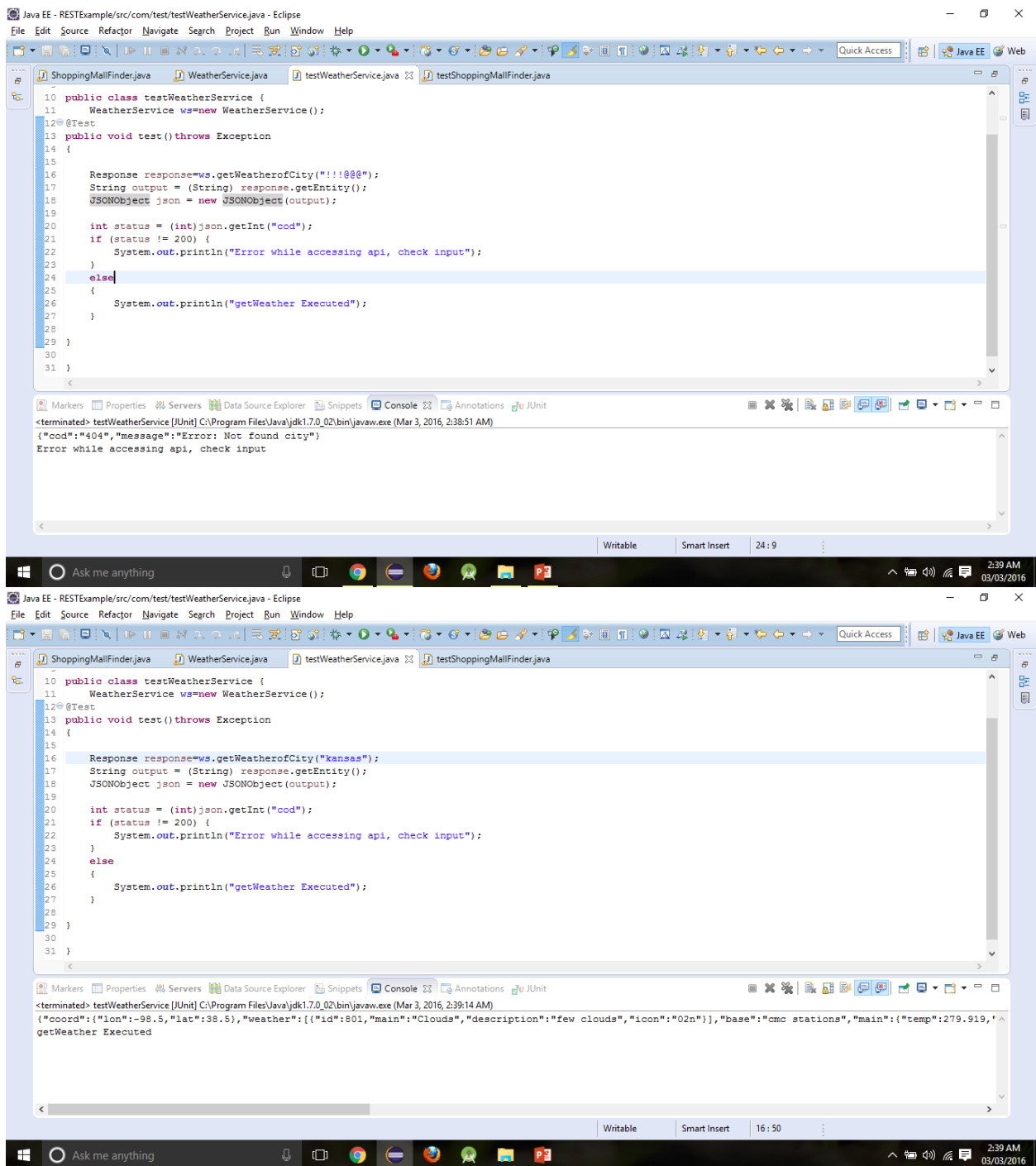Here is the screenshot of web application.

1. Eclipse Main Page:

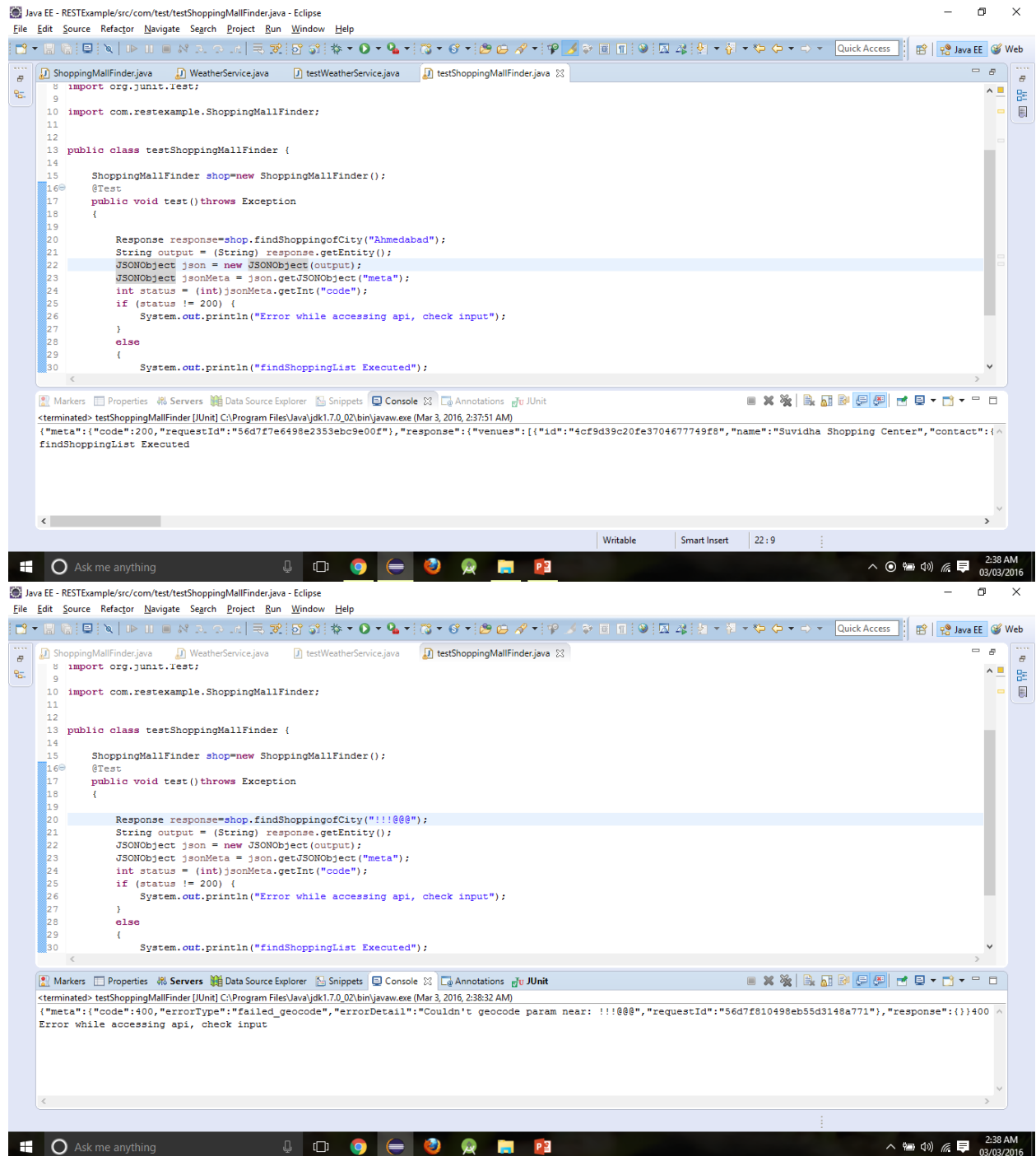## 2. Output of Find Weather Service :

3. Output of Shopping Mall finder service

{"meta":{"code":200,"requestId":"56d7f896498e3d0c0d7d3b7f"},"response":{"venues":[],"geocode":{"what":"","where":"kansas","feature":{"cc":"US","name":"Kansas","displayName":"Kansas, United States","matchedName":"Kansas, United States","highlightedName":"<b>Kansas<\/b>, United States","woeType":8,"slug":"kansas-united-states","id":"geonameid:4273857","longId":"72057594042201793","geometry":{"center":{"lat":38.50029,"lng":-98.50063},"bounds":{"ne":{"lat":40.003166,"lng":-94.588387},"sw":{"lat":36.993016,"lng":-102.051769}}}},"parents":[]}}}

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4. Test case for Weather Service (Success and Fail):


```java
10  public class testWeatherService {
11      WeatherService ws=new WeatherService();
12  @Test
13  public void test()throws Exception
14  {
15
16      Response response=ws.getWeatherofCity("!!!@@@");
17      String output = (String) response.getEntity();
18      JSONObject json = new JSONObject(output);
19
20      int status = (int)json.getInt("cod");
21      if (status != 200) {
22          System.out.println("Error while accessing api, check input");
23      }
24      else
25      {
26          System.out.println("getWeather Executed");
27      }
28
29  }
30
31  }
```

```
<terminated> testWeatherService [JUnit] C:\Program Files\Java\jdk1.7.0_02\bin\javaw.exe (Mar 3, 2016, 2:38:51 AM)
{"cod":"404","message":"Error: Not found city"}
Error while accessing api, check input
```



```java
10  public class testWeatherService {
11      WeatherService ws=new WeatherService();
12  @Test
13  public void test()throws Exception
14  {
15
16      Response response=ws.getWeatherofCity("kansas");
17      String output = (String) response.getEntity();
18      JSONObject json = new JSONObject(output);
19
20      int status = (int)json.getInt("cod");
21      if (status != 200) {
22          System.out.println("Error while accessing api, check input");
23      }
24      else
25      {
26          System.out.println("getWeather Executed");
27      }
28
29  }
30
31  }
```

```
<terminated> testWeatherService [JUnit] C:\Program Files\Java\jdk1.7.0_02\bin\javaw.exe (Mar 3, 2016, 2:39:14 AM)
{"coord":{"lon":-98.5,"lat":38.5},"weather":[{"id":801,"main":"Clouds","description":"few clouds","icon":"02n"}],"base":"cmc stations","main":{"temp":279.919,'
getWeather Executed
```

5. Test case for Shopping Mall Service (Success and Fail):

References:

- http://howtodoinjava.com/jersey/jax-rs-jersey-hello-world-example/
- http://crunchify.com/how-to-create-restful-java-client-with-jersey-client-example/
- http://www.vogella.com/tutorials/REST/article.html#jerseyprojectsetup
- https://www.safaribooksonline.com/library/view/java-web-services/9780596157708/ch01s02.html
- https://jersey.java.net/documentation/latest/getting-started.html
- http://viralpatel.net/blogs/restful-web-service-tutorial-introduction-rest-restful/
- Class Tutorial