

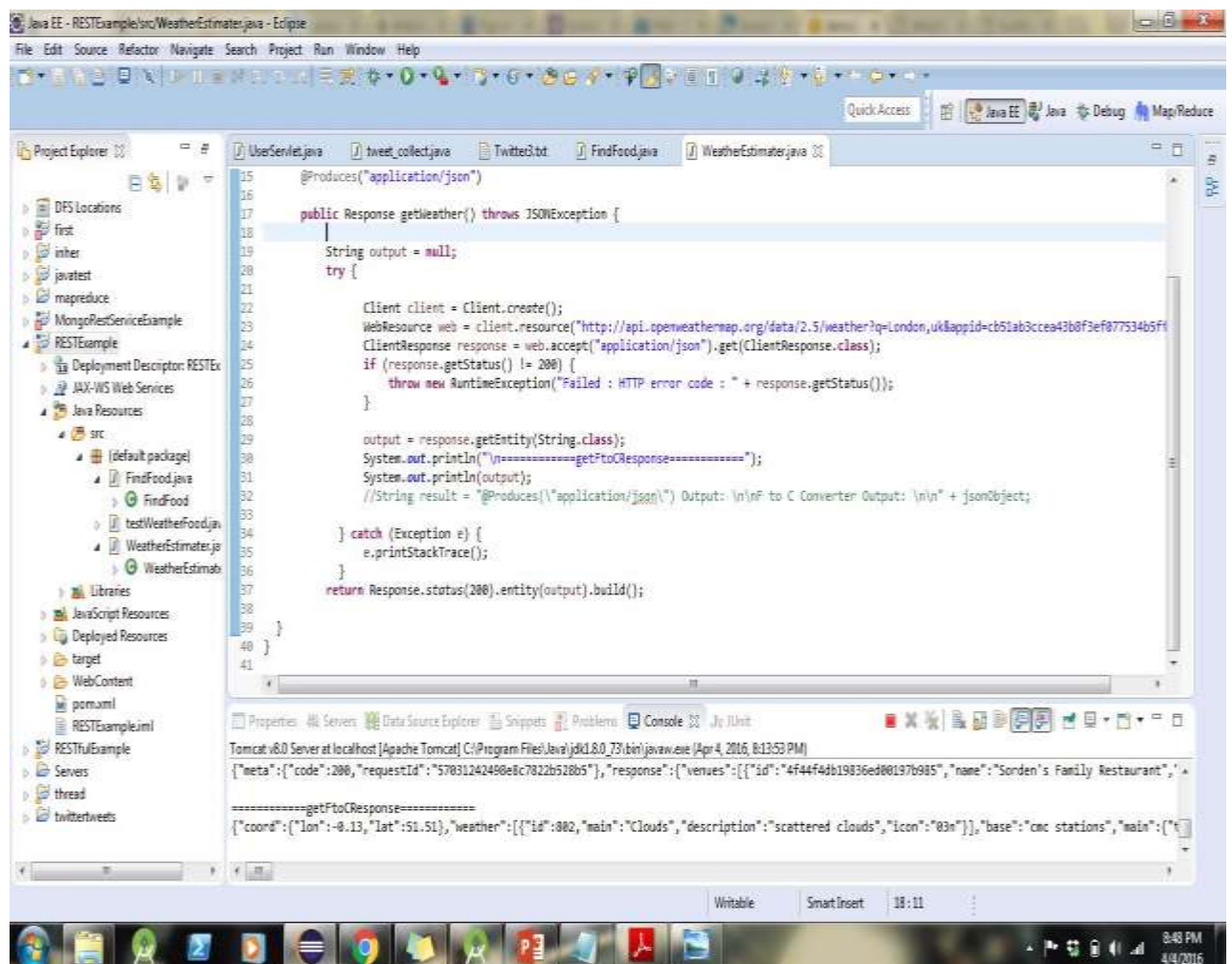
Lab 10

AWS Deployment

Deployment of Web mashup application using Amazon web services in Elastic Beanstalk.

ScreenShots:

- Java Program run successful.



The screenshot shows the Eclipse IDE with the following components:

- Project Explorer:** Shows a project named 'RESTExample' with a 'src' folder containing 'FindFood.java', 'testWeatherFood.java', and 'WeatherEstimate.java'.
- Editor:** Displays the 'WeatherEstimate.java' file. The code is a Java Servlet that uses the OpenWeatherMap API to fetch weather data for London. It includes a 'getWeather()' method that returns a 'Response' object.
- Console:** Shows the output of the program. It includes the Tomcat v8.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_73\bin\java.exe [Apr 4, 2016, 8:13:53 PM] and the JSON response from the OpenWeatherMap API.

```
@Produces("application/json")
public Response getWeather() throws JSONException {
    String output = null;
    try {
        Client client = Client.create();
        WebResource web = client.resource("http://api.openweathermap.org/data/2.5/weather?q=London,uk&appid=cb51ab3ccea43b8f3ef877534b5f4");
        ClientResponse response = web.accept("application/json").get(ClientResponse.class);
        if (response.getStatus() != 200) {
            throw new RuntimeException("Failed : HTTP error code : " + response.getStatus());
        }
        output = response.getEntity(String.class);
        System.out.println("\n=====getFtoCResponse=====");
        System.out.println(output);
        //String result = "@Produces(\"application/json\") Output: \n\nF to C Converter Output: \n\n" + jsonObject;
    } catch (Exception e) {
        e.printStackTrace();
    }
    return Response.status(200).entity(output).build();
}
```

```
{
  "meta": {
    "code": 200,
    "requestId": "57031242480e8c7822b528b5",
    "response": {
      "venues": [
        {
          "id": "4f44f4db19836ed00197b985",
          "name": "Sorden's Family Restaurant",
          "coord": {
            "lon": -0.13,
            "lat": 51.51,
            "weather": {
              "id": 802,
              "main": "Clouds",
              "description": "scattered clouds",
              "icon": "03n",
              "base": "cmc stations",
              "main": {
                "temp": 10.0,
                "humidity": 75,
                "pressure": 1013,
                "wind": {
                  "speed": 1.6,
                  "deg": 135
                },
                "clouds": {
                  "all": 75
                }
              }
            }
          }
        }
      ]
    }
  }
}
```

- Health of amazon Web Services

The screenshot displays the AWS Elastic Beanstalk console for an environment named 'demo1-env'. The interface includes a sidebar with navigation options: Dashboard, Configuration, Logs, Health (marked with a 'NEW' badge), Monitoring, Alarms, Events, and Tags. The main content area shows the 'Overview' tab with a large green checkmark indicating 'Health: Ok'. Other details include the 'Running Version' as 'REStExample' and the 'Configuration' as '64bit Amazon Linux 2015.09 v2.0.8 running Tomcat 8 Java 8'. A 'Recent Events' table at the bottom lists four events, all of type 'INFO', detailing health transitions and successful updates.

demo1 ▸ demo1-env (Environment ID: e-wmgvzplq, URL: demo1-env.us-west-2.elasticbeanstalk.com)

Dashboard Overview Refresh

Configuration

Logs Health **NEW** Monitoring Alarms Events Tags

Health **Ok** Causes

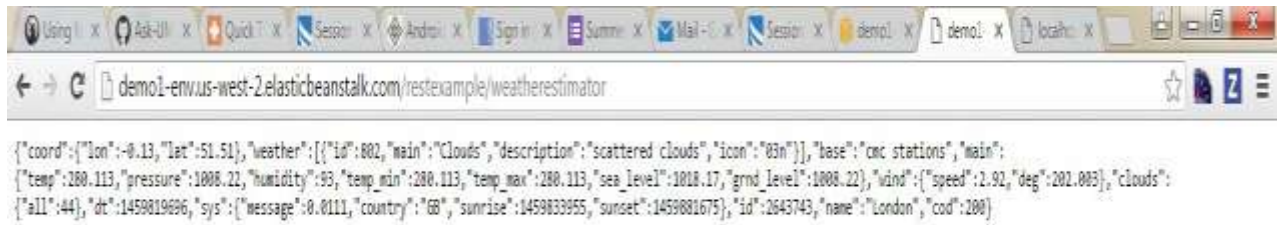
Running Version RESTExample Upload and Deploy

Configuration 64bit Amazon Linux 2015.09 v2.0.8 running Tomcat 8 Java 8 Change

Recent Events Show All

Time	Type	Details
2016-04-04 20:33:29 UTC-0500	INFO	Environment health has transitioned from Info to Ok.
2016-04-04 20:32:31 UTC-0500	INFO	Environment update completed successfully.
2016-04-04 20:32:31 UTC-0500	INFO	New application version was deployed to running EC2 instances.
2016-04-04 20:32:29 UTC-0500	INFO	Environment health has transitioned from Ok to Info. Command is executing on all instances.

- Application Deployment using weblink displays Json data for Weather.



- Application Deployment using weblink displays Json data for love.

