

Homework 8: Weather Forecast Web App using Bootstrap, JQuery, AJAX and JSON Mashup

Total points: 10 points

Basic Search Form (1.25 point in total)

- The initial webpage with all form fields as described, Clear Button, Search button and the Forecast.io logo with a link to Forecast.io homepage (**0.75 point**)
- jQuery validation for the search input (**0.5 point**) (i.e. appropriate message in red appears when invalid)

Result Display (8.75 points in total)

- **Tab 1 (Current Weather details, Cloud Map and Facebook button) – (4.25 points)**
 - ✎ Current temperature, the icon, summary and high-low temperature should be displayed as shown in the homework description. (**1 point**)
 - ✎ The other weather details should be displayed in the table in correct format with the appropriate units. (**0.5 point**)
 - ✎ The cloud map should be displayed properly. (**1 point**)
 - ☛ The clouds and precipitation layer should be visible (**0.5 point**)
 - ☛ The city specified in the search form should be set in the map (**0.5 point**)
 - ✎ Facebook button (**1.5 points**)
 - Authorize the user to Facebook if the user is not already logged in (**0.5 point**)
 - Post the Weather information to a user's News Feed (**1 point**)
 - Display the correct message as **title**, with the city and state. Together with this you need to give the **description** which should include the summary and current temperature (**0.25 point**)
 - Weather icon image (**0.25 point**)
 - Working Link to Forecast.io homepage (**0.25 point**)
 - Successful/Failed Message after posting (**0.25 point**)
 - ✎ The tab should be responsive to mobile device as shown in the homework description (**0.25 point**)
- **Tab 2 (24 hour forecast) – (2 points)**
 - ✎ Table to display the 24-hour weather summary (**0.5 point**)
 - ✎ Drop down table which is shown when the view details icon is clicked (**1.25 points**)
 - ✎ The table with the drop down should be responsive to mobile device as shown in the homework description (**0.25 point**)
- **Tab 3 (7-day forecast) – (2.5 points)**
 - ✎ All the seven columns should display the weather details as shown in the homework description (**1 point**)

- The day and the date should be displayed properly (**0.5 point**)
- The weather icon should be displayed (**0.25 point**)
- The max and min temperature should be displayed (**0.25 point**)
- Modal properly displayed for each of the seven days (**1 point**)
 - Modal title should display the city and date, the weather icon and the day should be displayed as shown in homework description (**0.5 point**)
 - The weather details in the modal window should be displayed in proper format and units (**0.5 point**)
- The columns showing the weather details and the modal window should be responsive in the same way as shown in the homework description (**0.5 point**)

Use of AWS

- PHP script must be deployed on AWS. Implementing the assignment by using the Apache+PHP on cs-server.usc.edu instead of the AWS Elastic Beanstalk, will result in a penalty of **2 points**. To allow the graders to perform this test, an additional link should be added to the list of Homeworks, with a format similar to the following:

[http://default-environment-randomstring.elasticbeanstalk.com/?\[listing the parameters and sample values is mandatory\]](http://default-environment-randomstring.elasticbeanstalk.com/?[listing the parameters and sample values is mandatory])

This link would guide graders to a page where it displays the JSON data wrapped in your PHP file running on the Amazon AWS.

Additional Requirements:

- The program must work in Firefox.
- All the results should be displayed in the same window as the search form.