

# Homework 6: Server-Side Scripting

## Grading Guidelines

Graders will test your homework on Firefox and Chrome.

### Grading Guidelines:

#### Search Form (2 points in total)

- The initial webpage with proper fields in the search form, along with “Weather Search” header. **(1 point)**
  - Missing each field in the search form will deduct 0.25 points.
  - The drop-down list should contain all the states in the US, 0.25 points will be deducted otherwise.
  - On selecting Current Location, the Street, City and State input box should be cleared and disabled, 0.5 points will be deducted.
- Validation for the search inputs, the error message(s) should indicate if fields are missing. **(0.25 point)**
  - If there is no error message for invalid input, 0.25 will be deducted.
- The “Clear” button resets the search form to the initial state and clears the results area. **(0.5 point)**
  - For each not correctly reset or cleared field, 0.25 point will be deducted, for a maximum deduction of 0.5 point.
- When the “Search” button is clicked, the page maintains the previous input values after displaying the results table. **(0.25 point)**
  - For each not correctly maintained field, 0.25 point will be deducted.

#### Search Result Page (3.5 points)

- Show the search information retrieved from the API service in a card format as described in the homework description. **(1.5 points)**
  - For each missing data in the card, 0.25 point will be deducted with a maximum of 1 point.
  - For incorrect mismatch of data, 0.25 point will be deducted
  - For each icon in a row on hovering it should display the corresponding parameter, 0.25 point will be deducted.

- Show the search information retrieved from the API service in a table format as described in the homework description. **(2 points)**.
  - For each missing column in the table, 0.25 point will be deducted with a maximum of 1 point.
  - For each incorrect column value or column order mismatch, 0.25 point will be deducted with a maximum of 0.5 point.
  - For each row the date should be provided in the right format, 0.25 point will be deducted.
  - On clicking the Summary, it should direct to that detailed page with the right date, 0.25 will be deducted.

#### **Details Summary of Weather Page (4.5 points)**

- Show the information retrieved from the API service in a card format as described in the homework description. **(2.5 point)**
  - For each missing data in the card, 0.25 points will be deducted with a maximum of 1 point.
  - Missing the unit for the corresponding value, 0.5 point will be deducted.
  - The icon should be present in the card, 0.5 point will be deducted.
  - The styling of the card should be similar, 0.5 points will be deducted.
- Day's Hourly Weather should have a toggle button format for the chart as described in the description. **(2 point)**
  - On clicking the arrow, the chart should be displayed, and the arrow icon should toggle and vice versa, 1 point will be deducted.
  - The chart should display the weather on an hourly basis, 0.5 points will be deducted.
  - The chart should have the corresponding label on the axis, 0.5 points will be deducted.

#### **\*\*IMPORTANT\*\***

- You should not call any APIs directly from JavaScript. Doing this will result in 4.0-point penalty.
- If JQuery is used, 4.0 point will be deducted.
- You should implement HW 6 in a single PHP file. If multiple files are submitted, 3.0 point will be deducted.
- You should implement HW 6 using AWS/GCP/Azure cloud server as described in HW 5. Otherwise, 3.0 points will be deducted.

**Source code submission:**

Students should submit their source electronically to GitHub Classroom account so that it can be graded by graders and compared to all other students' code via the MOSS code comparison tool. In addition, on your course homework page, you **must** update HW6 link to refer to your new HW 6 PHP page.