

Homework 6: Server-Side Scripting

Grading Guidelines

Graders will test your homework on Firefox and Chrome.

Grading Guidelines:

Tabular Menu (0.5 points in total)

- The styling of the menu buttons should be similar, **0.25 points** will be deducted otherwise.
- The buttons should work as demonstrated in the video, **0.25 points** will be deducted otherwise.

Homepage (2.5 points in total)

1. Slides (1 point in total)

- The styling of the slides should be similar to the reference video, **0.25 points** will be deducted otherwise.
- Missing any field in the slides and the animation will result in **0.5 points** deduction.
- Clicking any article should open the original post in a new tab, **0.25 points** will be deducted otherwise.

2. WordCloud (0.5 point in total)

- The styling of the wordcloud should be similar to the reference video, **0.25 points** will be deducted otherwise.
- There should not be duplicate words present, **0.25 points** will be deducted otherwise.

3. CNN and Fox News section (1 point in total)

- The styling of the cards should be similar to the reference video, **0.25 points** will be deducted otherwise.
- Clicking any article should open the original post in a new tab, **0.25 points** will be deducted otherwise.
- Missing any field in the card will result in a **0.25 points** deduction for each missing field; maximum deduction of **0.5 points**.

Search Form (3.5 points in total)

- The form with all fields and correct default values (**1.25 points**)
 - Missing any field in the search form will result in a deduction of **0.25 points**.
- The styling of the form elements should be similar to the reference video, **0.25 points** will be deducted otherwise.

- Validation for the search inputs; the error message(s) should indicate the appropriate errors. **(0.5 points)**
- Missing appropriate error messages for no results, **0.5 points** will be deducted.
- The “Clear” button resets the search form to the initial state and clears the results area. **(0.5 points)**
 - For each not correctly reset or cleared field, **0.25 points** will be deducted, for a maximum deduction of **0.5 points**.
- When the “Search” button is clicked, the page maintains the previous input values after displaying the results table. **(0.25 points)**
 - For each not correctly maintained field, 0.25 points will be deducted.
- The drop-down list should contain all the categories and the dropdown for sources should dynamically change depending on the category selection **(0.25 points)**

Search Result Page (3.5 points in total)

- Show the search information retrieved from the API service in a card format as described in the homework description. **(1.25 point)**
 - For each missing data in the card, **0.25 points** will be deducted with a maximum of **0.5 points**.
 - Card description should not be more than 1 line. **0.25 points** will be deducted.
 - The styling of the card should be similar to the reference video, **0.25 points** will be deducted otherwise.
 - Displaying different number of articles will result in a **0.25 points** deduction.
- The toggling of Show More and Show Less button should work as demonstrated in the reference video. **(0.75 points)**
- Clicking the card should open the expanded card as described in the homework description. **(0.25 points)**
- On clicking the cross button in the expanded card, it should collapse the card. **(0.25 points)**
- For each missing data in the expanded card, **0.25 points** will be deducted with a maximum of **0.5 points**.
- The styling and structure of the expanded card should be similar to the reference video, **0.25 points** will be deducted otherwise.
- Clicking the link in the expanded card should open the original article in a new tab. **(0.25 points)**.

****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 using Python.
- You should implement HW 6 using AWS/GCP/Azure cloud server as described in HW 5. Otherwise, **3.0 points** will be deducted. This will be verified with an additional link in the Table of exercises, showing a sample API call to your “cloud” service and verifying the corresponding JSON result.

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 home page. Also provide an additional link to one of your cloud query entry points, below the homepage link.