Homework 8: Ajax, JSON, React, RWD and Node.js
News Search

Grading Guidelines

Total Points: 15

Deduction of points in each category will NOT exceed the total points of the category.

- **Navbar (1.25 points in total)**
    - The styling, highlighting and hover effect of the navbar should be similar to the reference video, **0.5 points** will be deducted otherwise.
    - The positioning of each element should be as shown in the reference video, **0.25 points** will be deducted otherwise.
    - Persisting search keyword when navigating to some tab after a previous query will lead to a **0.5 points deduction.**

- **Autosuggest (1.25 points in total)**
    - The placeholder value and the auto suggesting values should be displayed similar to the reference video; 1 **point** will be deducted otherwise.
    - Failure to persist the search query after pressing enter in the search box will result in a deduction of **0.25 points.**
    - Poor performance of Autosuggest will result in a deduction of **0.25 points.**

- **Section Page (3 points in total)**
    - Styling of news article cards should be similar to the reference video; **0.5 points** will be deducted otherwise.
    - Displaying all articles correctly on the home page along with different sections the articles belong to as shown in the reference video, **0.75 point** will be deducted otherwise.
    - Displaying articles belonging to the selected section page, **0.75 point** will be deducted otherwise.
    - Styling for each section tag should be as shown, **0.5 points** will be deducted otherwise.
    - Adding and removing article should display pop-up message - **0.25 points**
    - Styling of the pop-up should be as shown in the reference video - **0.25 points**

- **Favorite/Bookmark Page (2 points in total)**
    - Add news article to bookmark list - **0.5 points**
    - Delete news article from the bookmark list - **0.5 points**
    - Clicking the article should redirect to the detailed article page - **0.5 points**
    - Adding and removing article should display pop-up message - **0.25 points**
    - Styling of the pop-up should be as shown in the reference video - **0.25 points**

- **Article Page (2.5 points in total)**
    - Styling of the detailed article page and all buttons should be similar to the reference video, **0.5 points** in total.
    - Display all data as specified and in the same format, **0.25 points** deduction for each missing data with a maximum deduction of **0.75 point.**
    - Bookmark button should have the correct styling when visiting a saved article - **0.25 points** in total.
    - The description should be restricted to 4 sentences maximum without expanding the article using the arrow, **0.5 points** will be deducted.
    - The animation on the arrow click in detailed article should follow the reference video, **0.25 points** will be deducted.
    - The toggling behavior of the arrow should be as shown, **0.25 points** will be deducted.

- **Comment box (1 point in total)**
    - Persistence of comments in the comment box for each article, **0.75 points.**
    - Unique comment box for each article, **0.25 points.**

- **Loading Screen (1 point in total)**
    - The styling and position of the loading symbol should be as shown in the reference video, **0.5 points** will be deducted.
    - The loading screen should be present between both section page and detailed article page, **0.5 points** will be deducted.

- **Sharing Functionality (1 point in total)**
    - Styling of all share buttons should be as shown in the reference video, **0.25 points** will be deducted otherwise.
    - The articles on section page, detailed article page, search result page as well as the favorites/bookmark page should have the sharing buttons, **0.25 points** will be deducted otherwise.
    - The sharing functionality should work as shown for all Facebook, Twitter and Email buttons, **0.25 points** will be deducted otherwise.

- ○ The styling of the sharing modal should be as shown in the reference video, **0.25 points** will be deducted.

- **Responsive (2 points in total)**
  - ○ In the mobile browser, all pages should be the same as the screenshots provided in the description and the reference video, **1 point** will be deducted otherwise.
  - ○ In the mobile browser, all functionalities must work normally, **1 point** will be deducted otherwise.

- **Use of React-Bootstrap**
  - ○ This app should be implemented using React-bootstrap. Implementations without Bootstrap will result in a **2-point penalty**.

- **Use of GAE/AWS/Azure**
  - ○ Node.js script must be deployed on GAE/AWS/Azure. To allow the graders to perform this test, an additional link should be added to the list of homework, with a format similar to the following:
    - ■ http://xxx.appspot.com/[path]?[list_of_the_parameters_and_sample_values]
      Or
    - ■ http://xxx.elasticbeanstalk.com/[path]?[list_of_the_parameters_and_sample_values]
      Or
    - ■ http://xxx.azurewebsites.net/[path]?[list_of_the_parameters_and_sample_values]
  - ○ This link would guide graders to a page where it displays the JSON data returned by your Node.js script running on the Google App Engine/Amazon AWS/Azure. Failing to provide a valid link will result in a **4-point penalty**.

- **Additional Requirements**
  - ○ The entire assignment is to be implemented using ReactJs, Node.js and React-Bootstrap. Use of other technologies (unless allowed on Piazza) will result in a **5-point penalty.**
  - ○ The use of jQuery will result in a **2-point penalty.**
  - ○ All API requests should be made server-side, except the Autosuggest API that should be made client-side, as outlined in the homework description. Any violation will result in a **3-point penalty.**
  - ○ The window should not reload for any kind of data request except the toggle switch. It is a focus on building single-page applications. This will result in a **3-point penalty.**

- Everywhere in the application, the back behavior should work. **<u>3-point penalty</u>** otherwise.
- The program must work in Chrome and Firefox on desktop, and Safari and Chrome on mobile devices.
- Missing color codes/wrong section anywhere for the badges will result in a **<u>2-point penalty (0.5 for each occurrence)</u>**
- Please note, you need to submit your files (HTML, JS, CSS, TS), both backend and frontend, directly to the root folder of your homework 8 GitHub repository. That is, do not submit any subfolders on GitHub Classroom. If you submit some **subfolders**, you will receive a **2-points penalty.**