Homework 8: Responsive Web Design

Congress Information Search

(AJAX/JSON/Bootstrap/jQuery/AngularJS/Cloud Exercise)

Total Points: 10

- **Legislators (3 points in total)**
  - Three tabs (State, House, Senate), each tab contains a result table with valid fields and data – **0.75 point**
  - Results in State tab is firstly sorted alphabetically by state name, then sorted by last name of the legislator. Results in House and Senate tab are sorted by last name – **0.25 point**
  - Result table is paginated **– 0.25 point**
  - In State tab, can properly filter legislators by state. In House and Senate tab, can properly fuzzy search legislators – **0.25 point**
  - View Details
    - Properly display the legislator's personal information table, committees table and bills table – **0.75 point**
    - When back button clicked, can navigate back to legislator tab – **0.25 point**
    - When favorite button clicked, can add / remove the legislator from the favorites list – **0.25 point**
    - If the legislator is in the favorites list, yellow star button should be displayed – **0.25 point**

- **Bills (2 points in total)**
  - Two tabs (Active Bills, New Bills), each tab contains a result table with valid fields and data. Results are sorted based on date descending order – **0.75 point**
  - Result table is paginated **– 0.25 point**
  - In result table, can properly fuzzy search bills – **0.25 point**
  - View Details
    - Properly display the bill's detail information table – **0.5 point**
    - Properly display the preview of pdf version of the bill - **0.25 point**

- **Committees (1 point in total)**
  - Three tabs (House, Senate, Joint), each tab contains a result table with valid fields and data. Results are sorted based on committee ID – **0.75 point**
  - When favorite button clicked, can add / remove the legislator from the favorite list – **0.25 point**

- **Favorites (2 points in total)**
  - Three tabs (Legislators, Bills, Committees), each tab contains a result table with valid fields and data – **0.75 point**

- When delete button clicked, the legislator/bill/committee should be removed from the table and favorites list local storage – **0.5 point**
- When delete button clicked, the removed legislator/bill/committee should not be displayed with yellow star button in other pages **– 0.25 point**
- When view details button clicked, should go to the detail page of the legislator/bill – **0.5 point**

- **Responsive (1 point in total)**
  - In mobile browsers, all of the pages should be the same as screenshots provided in description document **– 0.5 point**
  - In mobile browsers, the legislator detail page should have different number of fields with desktop browser **– 0.25 point**
  - In mobile browsers, the bill detail page should not display the preview of pdf **– 0.25 point**

- **Use of AngularJS (1 point in total)**
  - The whole app should be implemented utilizing AngularJS framework **– 0.5 point**
  - The result table should use Angular dirPagination plugin to implement the pagination, filtering and fuzzy search features **– 0.5 point**

- **Use of Bootstrap**
  - The app should be implemented using Bootstrap. Implementations without Bootstrap will result in a penalty of 2 points.

- **Use of GAE/AWS**
  - PHP script must be deployed on GAE/AWS. Implementing the assignment by using the Apache + PHP on cs-server.usc.edu instead of GAE/AWS will result in a penalty of 4 points. 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://example.appspot.com/?[listing_the_parameters_and_sample_values]
    - Or
    - http://example.elasticbeanstalk.com/?[listing_the_parameters_and_sample_values]
  - This link would guide graders to a page where it displays the JSON data wrapped in your PHP file running on the Google App Engine/Amazon AWS.
  - Implementing API access to Sunlight Foundation API using JavaScript instead of PHP (cross-domain using the "hack", JSONP or CORS) will result in a penalty of 5 points.

- **Additional Requirements**
  - The program must work in Firefox and Chrome
  - The window should not reload for any kind of data request. All transactions are asynchronous