Homework 8: Ajax, JSON and Responsive Design

Product Search

Grading Guidelines

Total Points: 15

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

- **Basic Search Form (3.5 points in total)**
  - Missing or inappropriate styling for Ebay logo – 0.5 points
  - If any field is missing - 0.25 points / occurrence
  - Form styling and fields placement – 2 points
  - Submit/Clear button icons and styling – 0.5 points
  - The drop-down list should contain all categories - 0.25 points
- **Product Results (3.5 poins in total)**
  - Five rows of products should be displayed – 0.5 points
  - Image missing or default image seen – 0.25 points / occurrence
  - Missing Title/ Price/ Location - 0.5 points
  - Product Title should clickable - 0.25 points
  - Pagination functionality should work as shown in the video – 1.5 points
  - Pagination styling should be similar – 0.5 points
- **Product Details (3.5 points in total)**
  - **Basic Info tab (0.75 points in total)**
    - The data displayed should be valid - 0.5 points
    - Styling and content should be appropriate - 0.25 points
  - **Listing Info tab (1 point in total)**
    - The data displayed should be valid - 0.5 points
    - Styling, icons and content be appropriate - 0.5 points
  - **Seller tab (1 point in total)**
    - The data displayed should be valid - 0.5 points
    - Styling, icons and content should be appropriate - 0.5 points
  - **Show/Hide Button (0.75 points in total)**
    - Every product in the result should display show/hide button - 0.25 points
    - The click functionality should be appropriate – 0.25 points
    - Styling should be appropriate – 0.25 points
- **Validation (1.5 points in total)**
  - If keyword is not validated – 0.25 points
  - If Min/Max price is not validated – 0.25 points
  - Failure to display warning when results are not found – 0.25 points
  - The styling should be similar as shown in video – 0.25 points
  - Clear button should reset the form, empty the results and remove validation errors – 0.5 points

- **Responsive (2.5 points in total)**
  - In mobile browsers, all of the pages should be the same as screenshots provided in description document – 1.5 points
  - In mobile browsers, pagination, product details and all functions must work - 1 points
- **Theme and Styling (0.5 points in total)**
  - 0.5 points can be deducted if the styling is not appropriate for any part of the assignment.
- **Use of Angular**
  - The app should be implemented using Angular 2+. Implementations using other frameworks will result in a penalty of 5 points.
- **Use of Bootstrap**
  - The app should be implemented using Bootstrap. Implementations without Bootstrap will result in a penalty of 2 points.
- **Use of GAE**
  - Node.js script must be deployed on GAE. 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]
  - 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. Failing to provide a valid link will result in **a penalty of 4 points**.

- **Additional Requirements**
  - All **eBay API** requests must be made on **server side**. No call to eBay API should be made directly from the client side. Any violation will result in a **4-point penalty**.
  - The page should **not reload** for any kind of data request. All transactions are asynchronous. Any page reload violation will result in a **2-point penalty**.
  - Both Bootstrap/Angular **front-end** and the Nodejs/Express **backend MUST run on GCP**. Running the front-end on either Freevar.com or GitHub Pages will result in a **10-point penalty**.
  - The program must work in Chrome and Firefox on desktop, and Safari and Chrome on mobile devices.
  - Students must update their Homework #8 link in their coursework table to refer to the deployed homework-8 page. Additionally, students should save their source code. If there are concerns of collaboration or plagiarism, students will be requested to provide their source code for further evaluation