# 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)

- $\circ$  Missing or inappropriate styling for Ebay logo 0.5 points
- o 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
- o 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
- $\circ$  Image missing or default image seen -0.25 points / occurrence
- o Missing Title/ Price/ Location 0.5 points
- o Product Title should clickable 0.25 points
- o Pagination functionality should work as shown in the video 1.5 points
- $\circ$  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)

- o If keyword is not validated -0.25 points
- If Min/Max price is not validated 0.25 points
- $\circ$  Failure to display warning when results are not found 0.25 points
- $\circ$  The styling should be similar as shown in video 0.25 points
- $\circ$  Clear button should reset the form, empty the results and remove validation errors 0.5 points

# Responsive (2.5 points in total)

- $\circ$  In mobile browsers, all of the pages should be the same as screenshots provided in description document 1.5 points
- O 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 <u>server side</u>. 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.
- O 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