Homework 6: Server-Side Scripting using Python, JSON and eBay API

Grading Guidelines

HTML, CSS and JavaScript Functionality:

1. Search Form (**3.25 points in total**)
   - The initial webpage should load with proper fields and defaults in the search form, along with the "eBay shopping" header - **1** point
   - Proper styling of the form, text alignment of fields, according to video - **0.25** points
   - Search should support checking multiple conditions together – **0.25** points
   - The eBay header image should redirect to the eBay shopping website on click – **0.25** points
   - **JavaScript validation** for the search input- Keyword, Min Price and Max Price (**1** point)
     - All the validations (Empty keyword, MaxPrice>=MinPrice, MinPrice>0, MaxPrice>0) should function correctly - **0.75** points
     - The page maintains the previous input values - **0.25** points
   - "**Clear**" button clears all input textboxes, checkboxes, and sets correct default values for "Sort By". (**0.5** point)
     - If your page fails to clear one of the fields, 0.25 point will be deducted.

2. Card Design (2.75 points in total)
   - Item Image should be vertically centered inside the card - **0.25** points
   - The redirect icon should open the correct item on eBay – **0.25** points
   - All the fields as per the video should be present in the summary and detailed card with proper styling format – **1** point
   - The cards should have shadow effect on hover – **0.25** points
   - The item title should be truncated to 1 line for in the summary card and should be displayed completely for the detailed card. – **0.25** points
   - The item image should have similar zoom effect and animation as the video – **0.5** points
   - Default image should be shown in case there is no image available – **0.25** points

3. The headline displaying the total number of results below the search form should update correctly on search and during multiple searches as well – **0.25** points

4. The **Show More** / **Show Less** button functionality and the scroll effect should work as per the video – **0.5** points

5. In case of no results found, the message should display correctly – **0.25** points

6. Cards should be sorted as per the sorting criteria selected and displayed in the order they have been retrieved – **0.25** points

7. All the buttons (Clear, Search, Show More, Show Less) should have styling as shown in the video – **0.25** points

Python script (**2.5 points in total**)
1. The API endpoint for search should return correct JSON data with all the required fields present (All the items that have any field missing should not be returned) – **0.5** points
2. The API endpoint for search should return only 10 valid items to the front-end – **0.5** points
3. Create an extra URL endpoint that needs to be added on the Homework link table for the filters – **0.5** points
    - Keyword: mask
    - Price range: 30$ to 50$
    - Condition: New
    - Shipping: Expedited
    - SortBy: PricePlusShippingHighestFirst
4. The JSON data should be parsed on the server and formatted as specified in the description document: 1 point

Penalties:
1. **4-point penalty** for making direct calls from **JavaScript** to the eBay APIs.
2. **4-point penalty** for using frameworks like **Bootstrap** and **JQuery**.
3. **3-point penalty** if the Python server does not use the **Flask** framework.
4. If any students are found collaborating and / or sharing the same code, they will be reported to **Steve Bucher** at the Viterbi School of Engineering, and a formal academic violation report will be submitted**.**

Source code submission:

Students **must** update their Homework #6 link in their coursework table to refer to the deployed homework-6 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.