Homework 6: Server-Side Scripting using PHP, JSON and Ticketmaster API

Grading Guidelines
10 Points

Graders will test your homework on Firefox and Chrome.

Grading Guidelines:

Search Form (3.0 points in total)
- The initial web page with proper fields in the search form, along with "Events Search" header. (**1.5 points**)
    - The drop-down list should contain all the 5 categories, 0.25 points will be deducted for each missing category
    - Location edit box must disappear when selecting "Auto-detect location" checkbox and appear when unchecked, 0.5 points
    - Distance edit box should have a placeholder, 0.25 points
    - Background image should be attached, 0.25 points
    - Search and Clear button should have proper hover effect and the form box should have frosted glass effect, 0.25 points
- Validation for the search inputs, the error message(s) should indicate if fields are missing. (**0.5 point**)
    - If there is no error message for invalid input, 0.5 will be deducted.
- The "Clear" button resets the search form to the initial state and clears the results area. (**0.5 point**)
    - For each incorrectly reset or cleared field, 0.25 point will be deducted, for a maximum deduction of 0.5 point.
- When the "Search" button is clicked, the page maintains the previous input values after displaying the results table. (**0.5 point**)
    - For each incorrectly maintained field, 0.25 point will be deducted, for a maximum deduction of 0.5 point.

Search Result Table (4.0 points)
- Show the search information retrieved from the API service in a tabular format as described in the homework description. (**2 points**)

- For each missing column in the table, 0.5 point will be deducted.
- For each incorrect column value or column order mismatch, 0.5 point will be deducted.
- For each missing/incorrect row/category date/icon/event/genre/venue in the table, 0.5 point will be deducted.
- The search should work for all 5 possible categories. For every missing search, 0.5 point should be deducted.
- Maximum deduction will be 2 points.
- On clicking headers Event, Genre, Venue, ascending and descending order sorting should be done. 0.5 point for each column ascending or descending order. (**1.5 points**)
- Event name should be clickable, on clicking appropriate detailed information should be displayed in the new tab, Make sure that "artist/ team" and "buy ticket at" sections are clickable, and the page should be opened in a new window. (0.25 points for each section, **0.5 points for both are non-clickable**).

Details Information (2.0 points)
- Show the information retrieved from the API service in a format as described in the homework description. (**1.5 point**)
    - For each missing data in the card, 0.1 points will be deducted
    - Missing the right heading for the corresponding value, 0.25 points will be deducted
    - All the subheadings should have data, 0.25 will be deducted for every subheading with no data with a maximum of 1 point
    - Ticket status in the event details card is color coded, 0.15 points will be deducted for every incorrectly colored card.
      The convention used is follows:
        o On sale: Green
        o Off sale: Red
        o Canceled: Black
        o Postponed: Orange
        o Rescheduled: Orange
    - Venue details should display the entire address: Name of Venue + street address + city + state + zip code, 0.25 points
    - Google maps location hyperlink should open in new tab, 0.25 points
    - More events hyperlinks should open in new tab, 0.25 points
    - Maximum deduction will be 1.5 points.
- Show the venue info card in a dynamic view (**0.5 point**)

Python Scripts (1.0 points)

- The other URL submitted in addition to the Homework 6 web page will be checked to see if the backend (Python scripts) is working or not.

IMPORTANT

- You may call Google Geocoding API and ipInfo from JavaScript, but you should not call Ticketmaster API directly from JavaScript. Doing this will result in a **4.0 points** penalty.
- You should implement HW6 using a GCP, AWS or Azure cloud service as described in Assignment 5. Otherwise, **3.0 points** will be deducted. This will be verified with an additional link in the Table of exercises, showing a sample API call to your "cloud" service and verifying the corresponding JSON result.
- Use of any kind of "template"-based technology, library or methods, such as Flask/Jinja templates, Django templates, or other templates that mix HTML and Python, will result in a **3.0 point** penalty.

Source code submission

Students should submit their source code electronically on DEN D2L as a single ZIP file containing all front-end and back-end code and any additional files. In addition, on your course homework page, you **must** update the Homework 6 link to refer to your new home page in the cloud.