**Challenge 11 UFO’s Website Write-up:**

**JavaScript, HTLM/CSS, and Bootstrap**

**Overview:**

Challenge for Module 11 was to modify the UFO webpage, that we created through the class instruction modules; that provided UFO sighting information from a static database capable of filtering by date. The request was to add additional filter options, such as city, state, country, and shape. Using JavaScript to create the website and applying HTML/CSS and Bootstrap functionality to modify the aesthetics the following was the finished product.

**Results:**

**Original UFO Website Title Page**

Using Bootstrap functionality, we pulled in the image and formatted the title and different section of data: (See below)

Graphical user interface, text

Description automatically generated

**Dynamic Filters:**

As mentioned, the originally site only allowed filter by date. Using the same method for the single filter we added filters for city, state, country, and shape. We also added code that updates the page when there are changes made to the any of the filter fields, and a command to clear all filters when clicking on the “UFO sightings” statement at the top of the page. (See below)

A screenshot of a computer

Description automatically generated

**Summary:**

**Observations**

The filters worked great allowing the for multiple filters against the database. And you could clear the filter using the “UFO sightings” button at the top. However, there are limitations that make it difficult to use.

* It does not instruct you that the “UFO sightings” statement is a clear all button
* The filter selections, though not operating, remain visible once filters are input
* Users need to already know exact dates, places, and shape types to input into the filter
* The filter input had to be exact: (case sensitive, exact spacing and spacing)
* Static data is 10 years old; I assume there would be more data available

**Recommendations:**

Improvements to address the above observations:

* Format the “UFO sightings” statement to be a button, and possibly label it “clear all”
* Have filter fields blank until input by user, so only those filters used are visible
* Provide a drop-down menu for the users to select the filter
* Use web scraping abilities to updated data base to include most recent data