Map/States

Basic requirements:

- This page will display an interactive map of the United States with states color coded by political party/parties of current senators. See this link for an open source interactive SVG map of states.
    - **15% of section (3% of total)**
- This page will be the site's home page, allowing navigation to other pages in these ways:
    - The user can click on a state to access its individual State Page.
    - A menu at the top of the screen prompts the user to "explore by candidate," "explore by committee," and "explore by issue," and will redirect to home pages for the respective sections. Another option, "how this affects policy," points the user to the Donations/Voting Correlations page.
    - **5% of section (1% of total)**
- Pages for individual states, which are accessed through the interactive map, will display data from state senatorial races from 1979-2022. Data will be sourced from the FEC candidate summary dataset and the MIT dataset of state-level returns for elections to the US. Senate.
    - **35% of section (7% of total)**
- Data is displayed in a table organized by election year. Each candidate in a certain year will represent a tuple, and political party affiliation, incumbency status, total receipts, and number of votes received are displayed.
    - **10% of section (2% of total)**
- The user can navigate to examine data from specific elections.
    - **20% of section (4% of total)**
- The user can navigate back to the main map via the menu.
    - **5% of section (1% of total)**

Possible additional features: **10% of section (2% of total)**

- Hovering over a state will display candidates for Senate in the most recent election and total donations they received.
- Data from the most recent election is displayed graphically at the top of the page, with bar graphs illustrating relative donations and votes received.
- The winner of each election is highlighted in a different color..

Candidates

Basic requirements:

- Each candidate will have their own page which can be accessed by clicking the "Explore by Candidate" tab on the home screen and then searching for a candidate.
    - The search function will be complicated. We want to avoid forcing a user to accurately type in a full name so we are hoping to add a drop-down menu which will take a lot of time.
        - Can't expect a user to type in "McCONNELL, Addison Mitchell(Mitch)"
    - **10% of section(2% of total)**

- The candidate page will show all of the donations which the candidate has received. It will be shown as a table where each donation is a tuple in the table.
    - This table can be sorted by amount, date, and person donating.
    - This data will be randomly generated so that it can be merged with data in the final requirement.
    - **30% of section(6% of total)**
- The page will also include a table of donations grouped by the person/group donating. Will do this by grouping and summing the data from the previous section.
    - This data will be randomly generated so that it can be merged with data in the last section and be visible on the same page
    - **10% of section(2% of total)**
- Lastly, if a candidate has been elected before, we will show their voting records. This table will include eight columns(filtered from the 40+ we start with). A user is able to compare these to the top donating groups and make their own conclusions based on the data.
    - We will allow the user to filter through a candidate's voting history based on the year, the congressional session, and the way the candidate voted.
        - Will help us deal with data at a large scale
    - We will be using real voting data here. As one can expect, cleaning data for every senate vote for every senator since 1967 will take a lot of time(a total of almost 1,700,000 tuples across datasets).
        - We have to merge 6 large csv files in order to get the full data
    - **50% of section(10% of total)**

Possible additional features:

- Use word recognition techniques to improve search function instead of relying on drop down menu
    - Will find a way to use the datalist feature in html to do this
    - **12.5% of section(2.5% of total)**

Committees

Basic requirements:

- The initial landing page will display all of the committees, their cid, type, and potentially their total donations in total.
    - **20% of section (3% of total)**
    - Includes search functionality for finding a specific committee's page
        - **5% of section (1% of total)**
- For each committee, we will create a separate page that will display the two-way donation relationship with a relation containing attributes (from, to, amount), indicating from what group/individual the donation came from, to what group/individual the donation intended to donate to, and the amount of money. The committee itself may be part of either the from or to attributes.
    - **20% of section (4% of total)**

    - For better organization and visualization purposes, we will have the ability to filter through these donations. These filters will include whether the donation was from or to the committee, and the type of the other party involved
        - **10% of section (2% of total)**
    - We will also have a search function if users are interested in directly searching for individuals/groups that the committee has been involved in donations with.
        - **10% of section (2% of total)**
- We will classify each committee into a distinct category based on its subject matter, similar to how we are classifying each piece of legislation that is being passed (see Issues section). This will further allow users to analyze donation data relating to subjects that they personally care about.
    - **20% of section (4% of total)**

Possible additional features: **15% of section (3% of total)**

- An additional feature is allowing the user to select a specific time period that they are interested in seeing committee donations for (already implemented)
- We could also highlight donations involving highly influential candidates in a certain time period (from Candidates) and compare that to that committee's overall donations.
- Each committee that a candidate is on (provided that they are already elected officials) will be listed on the candidate's page and the committee page will be accessible from there.

Issues

Basic requirements:

- First, the user will be able to select from a drop-down list of categories of policy issues and the state they are from/interested in
    - **10% of section (2% of total)**
- Using data from Congress's documentation on descriptions of legislation, they can filter for legislation their senator voted on in that policy area.
    - **20% of section (4% of total)**
- Using data from the FEC candidate summary dataset and OpenSecrets donors by industry dataset, we will cross-list those with the industries associated with those policy areas and what donation amount the senator received
    - **30% of section (6% of total)**
- Using the Senate voting records, they will also be able to see how their Senator voted on the legislation
    - **20% of section (4% of total)**
- It will provide information for donation amounts, and specifically identify any donations that were made in the cycle prior to the Senator's vote on specific legislation.
    - **20% of section (4% of total)**

Possible additional features

- Additionally, how have previous Senators voted on legislation relating to their donor, as opposed to the Senators currently in office.

- List if the Senators are members of any congressional committees/subcommittees that relate to industries they receive donations from, because it means that they are involved in deciding which legislation on that specific policy issue is being introduced.

Correlation

- Users will be able to filter which specifics they would like to be able to view given the provided data
    - **15%. 3 % total**
- Users will be able to select multiple options for what they would like to filter based upon
    - **15%. 3 % total**
- Users will have a graph outputted to visually summarize donations based upon what they selected
    - **20% 4% total**
- Users will be able to modify the graph to visualize different parts of their selection in different formats
    - **20%. 4% total**
- Users will be able to save their graph to their computer/user account
    - **15%. 3% total**
- Users will be able to access real, cleaned data so that the tool has a real impact
    - **15%. 3% total**
- Possible additional features:
    - Users will be able to save their last searched parameters between using the app.