Election 2020

Meera Shah
Tasneem Bhaijee
Jay Shah

Introduction

Core Message:

Our project will visualize current voter activity and showcase Republican/Democratic strongholds.

We plan to further use these patterns to formulate a strategy for each candidate to win the election.

Topic: 2020 Presidential Election

Goal:

- Create interactive US map to showcase data from straw polls
- Showcase the political status of each state
- Explore Javascript libraries and Flask to create webpages to showcase our data.

Implementation

Data Munging

Extract Datasets
(fivethirtyeight.com)

Created API Routes
Used Json Datasets for charts

Postgres
SQL Alchemy
Flask

Coding Approach

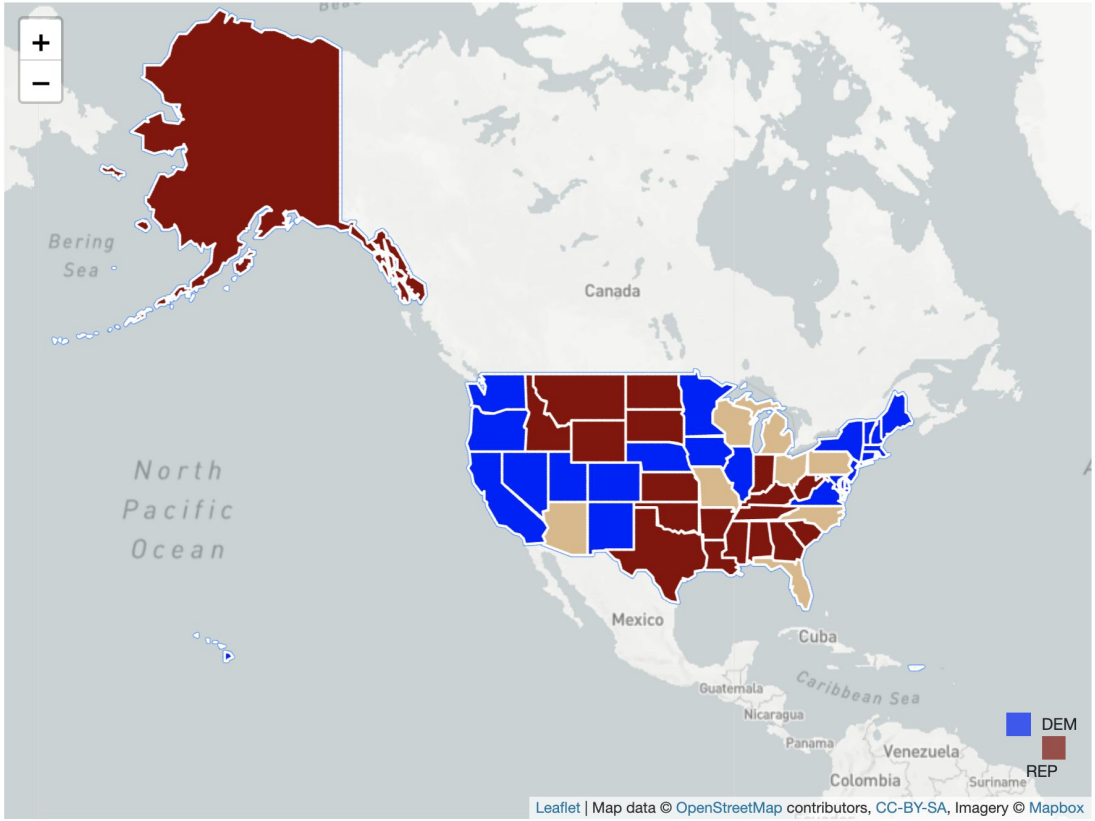
- SQLAlchemy
  - Connection was made, but classes returned empty lists
  - Assigning primary keys fixed this issue
- Flask - needed distinct routes in order for Flask to run properly and display the desired data.
  - Some issues with Flask refusing to run on VS Code
  - ran it through Git Bash
- Unable to read Choropleth.js file from GitHub
  - Multiple downloads of choropleth.js file
- No Map displayed with original data set
  - Download a different dataset containing a variety of coordinates to depict exactly where the states were located.

Coding Approach cont'd

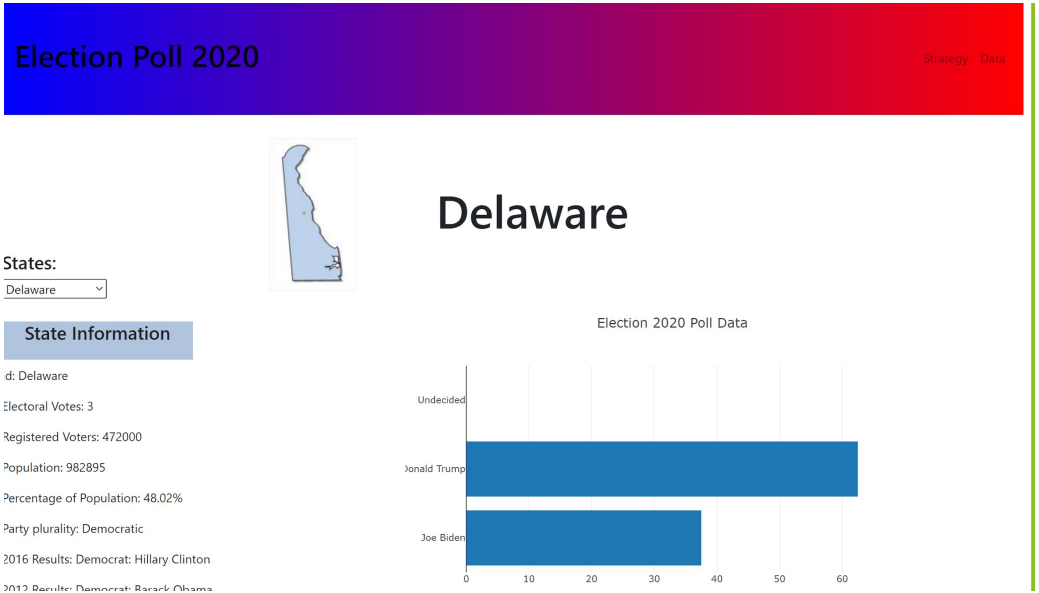
- State color gradient not changing based on the poll data value
  - Merging two datasets address the State map color gradient issues
- JQuery - explored new Javascript library to add markers and links the data page to each state
- D3.js - unable to replace the state image on the data page
  - Found that we had to clear before running the function to receive the new state image.
- Plotly.js- to generate bar chart for the poll percentage for the democratic and republican candidates

Final Visualizations

Interactive Map



Data Page


Election Poll 2020
Strategy
Data
States:
Delaware
State Information
d: Delaware
Electoral Votes: 3
Registered Voters: 472000
Population: 982895
Percentage of Population: 48.02%
Party plurality: Democratic
2016 Results: Democrat: Hillary Clinton
Delaware
Election 2020 Poll Data
Undecided
Joe Biden
0
10
20
30
40
50
60

Live Demo

https://jdshah06.github.io/Web-Dev-Project/
http://127.0.0.1:5500/index.html