Project 2 Proposal:

Voter Dashboard

We would like to create a voting dashboard that presents useful information to prospective voters as well as demographic data visualizations related to voting across the US. We plan to use the following API’s & data sources to access relevant data:

1. Democracy Works Elections API <https://www.democracy.works/elections-api>
2. U.S. Vote Foundation <https://civicdata.usvotefoundation.org/>
3. USPS API <https://www.usps.com/business/web-tools-apis/>

Data:

We will be using Mongo-Atlas as most of our data will be JSON formatted and we do not need to run complex analytics thus a SQL DB would only add additional layers of code and complexity.

1. Location of every ballot drop box in every county in every state (as available)
2. Location of every polling station in every state (as available)
3. Location of every USPS office in every county in every state (as available)
4. County, State & Zip Code shape data
5. County level population/demographic data

Dashboard:

1. Metadata sidebar with:
   1. Voting deadline
   2. Registration deadline
   3. Rating based on sparsity of polling stations + drop boxes per capita
   4. details for ballot to be counted
   5. Important state policies (ID required etc.)
2. Search tool that takes a zip code, converts it to a lat./long. point or shape and identifies local polling locations, drop boxes, and pertinent state/county policies (ID required etc.)
3. Choropleth map of each state county by ratio of population to voting locations and color-coded markers for each polling station, drop box, etc.
4. Choropleth map of each state county by % registered to vote
5. Choropleth map of each state county by USPS delays
6. Interactive web page where zip-code entered and based on zip it will show surrounding area divided by county showing pop. Density and other demo data as a bar chart, scatter plot etc.

Link to voter registration check page: <https://www.nass.org/can-I-vote/voter-registration-status>

Link to voter FAQs page: <https://www.eac.gov/voters/voter-faqs>