

Phase I Technical Report

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1 Motivation

Texas Votes was designed to refute the idea that one vote makes no difference in American democracy. Many resources exist which effectively track federal elections, but few exist dedicated to state politicians of Texas. Our website will shed light on the American bi-annual horse race — giving users demographic data, fundraising information, district electoral history, and even more. With a clean UI and a clear view of the upcoming election season, we hope to give people the information and the motivation to definitively cast their ballots on November 3.

1. What will my ballot look like? (ideally, a person coming here can look up their personalized ballot)
2. What is the current state of an election? (is one candidate out-fundraising another? can the challenger win, given the way a district has voted in the past?)
3. What does this election really mean? (who supports what candidates? is this election one I can sit out?)

2 User Stories

1. Healthcare Plans for Politicians

- (a) Story: Elderly voters are concerned about the security of their healthcare and would like to be able to easily determine which politicians have which stance on healthcare.
- (b) We will hardcode this information on the Politician Detail page for now but will need to find and add this data to our API.
- (c) Estimated: 0:05
- (d) Actual:

2. District Based on Address

- (a) Story: New voters want to know what district they are located in to be able to understand how to vote. They would also like information about voting.
- (b) We will implement this next phase when we create a functioning search bar for the model pages.
- (c) Estimated: Unable to do during this phase
- (d) Actual: Unable to do during this phase

3. Tax Rates for Politicians

- (a) Story: Wealthy and Conservative voters would like to be able to find out politicians' stances on tax breaks to determine which politicians would provide them with the most tax breaks.process as they are inexperienced.
 - (b) We will hardcode this information on the Politician Detail page for now but will need to find and add this data to our API.
 - (c) Estimated: 0:05
 - (d) Actual:
4. Address to where to go vote
- (a) Story: Voters who have just recently moved would like to know where they can vote based on their new location.
 - (b) We will need to find out how to get the polling locations, and if possible, will add this data to our API.
 - (c) Estimated: Unable to do during this phase
 - (d) Actual: Unable to do during this phase
5. When and Where to Vote by Address
- (a) Story: Busy voters would like a quick and easy way to determine the best polling location and time to fit their busy schedules.
 - (b) We will add Early Voting dates to the Election Detail pages. We will need to find out how to get the polling locations, and if possible, will add this data to our API.
 - (c) Estimated: 0:10
 - (d) Actual:

3 RESTful API

We made a RESTful API as a preliminary backbone for our website with Postman. We defined paths for politicians, districts, and elections, and created schemas for them as well. For each of the features we wanted, we created subpaths and ensured that our schema incorporated the data as well.

4 Tools

We utilized React and Ant Design for the front-end development of our website and Postman for back-end API design and documentation. We utilized Git flow to ensure proper development of features, minimization

of merge conflicts, and to ensure that development and production deployments occur smoothly. Docker and GitLab pipelines were used for the automatic deployment of our websites on target branches, as well as setting up development environments.

5 Models

The three models used for this website are politicians, districts, and elections. Each model has 10 attributes with some attributes being used to filter the data. Each model is tightly intertwined. A politician serves their constituents in a district and runs in an election. A district's demographics and electoral history can explain whether a politician can win or lose in an upcoming election. And an election decides which politician keeps or loses their job in their district.

5.1 Politicians

- Filters:
 - Name
 - Party
 - District
 - Current office
 - Incumbent/Not incumbent
- ID
- Terms
- Offices (what office do they currently hold and previously held)
- Biography
- Image
- Upcoming and past elections
- Socials (social media websites like Facebook)
- Fundraising (How much money they raised and spent)

5.2 Districts

- Filters:
 - Type
 - Party
 - County
 - Number
- ID
- Type
- Party
- County
- Number

5.3 Elections

- Filters:
 - Type
 - District
 - Office
 - Winner
- ID
- Type
- Candidates
- District
- Winner (if past election)
- Office

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