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Project # 4: Javascript and Data
Target Ship Date: 2023-05-26
Sources of Data:
https://www.kaggle.com/datasets/unanimad/us-election-2020?select=president_county_candidate.csv
https://www.ers.usda.gov/data-products/county-level-data-sets/county-level-data-sets-download-data/
https://www.census.gov/data/tables/time-series/demo/voting-and-registration/p20-585.html **(could also include but this is based on states not counties)**
General Idea:
A site where users are given the name of a county (state is then provided if the user guesses wrong) and then has to guess which 2020 presidential candidate won in that county (multiple choice). Once the answer is revealed, data about the county will also be revealed in the form of graphs. We'll display the county's history of education, unemployment rates, and median household income so the user can see if there are any correlations between that and how the county voted.
If extra time:

- **Interactive, moving Map**
- **Login and accounts with game records**
  - **keep track of user's score, what they usually get wrong and what they usually get correct, generate questions based on their history of correctness, track them on the left right scale based on how they answer, take into account of the state they live in to give stats on their state specifically**
- **Give users the option between short response (solely user text input without giving them answer choices) and multiple choice**

Components:
app

- **__init__.py**
- **utl**
  - **table_handler.py**
- **static**
  - **game.css**
  - **game.js**
  - **result.js**
  - **result.css**
- **templates**
  - **game.html**
  - **result.html**
- **Dillbickle**
  - Education Table:
    - Federal Information Processing Standard (FIPS) Code | State Area name | 2003 Rural-urban Continuum Code | 2003 Urban Influence Code | 2013 Rural-urban Continuum Code | 2013 Urban Influence Code | Less than a high school diploma, 2000 | High school diploma only, 2000 | Some college or associate's degree, 2000 | Bachelor's degree or higher, 2000 | Percent of adults with

less than a high school diploma, 2000 | Percent of adults with a high school diploma only, 2000 | Percent of adults completing some college or associate's degree, 2000 | Percent of adults with a bachelor's degree or higher, 2000 (goes to 2021 by 3)

- Unemployment/Median Income Table:
  - FIPS_code | State | Area_name | Rural_urban_continuum_code_2013 | Urban_influence_code_2013 | Metro_2013 | Civilian_labor_force_2000 | Employed_2000 | Unemployed_2000 | Unemployment_rate_2000 | (copy for 2001 to 2022) | Median_Household_Income_2020 | Med_HH_Income_Percent_of_State_Total_2020
- 2020 Election Table:
  - State | County | Candidate | Party | Total Votes | Won (boolean)
- County Population Table
  - FIPS_Code | State | Area_Name | Rural-Urban_Continuum_Code_2013 | Population_1990 | Population_2000 | Population_2010 | Population_2020 | Population_2021
- Poverty Table
  - FIPS_code | Stabr | Area_name | Rural-Urban_Continuum_Code_2003 | Urban_Influence_Code_2003 | Rural-Urban_Continuum_Code_2013 | Urban_Influence_Code_2013 | POVALL_2020 | CI90LBALL_2020 | CI90UBALL_2020 | PCTPOVALL_2020 | CI90LBALLP_2020 | CI90UBALLP_2020 | POV017_2020 | CI90LB017_2020 | CI90UB017_2020 | PCTPOV017_2020 | CI90LB017P_2020 | CI90UB017P_2020 | POV517_2020 | CI90LB517_2020 | CI90UB517_2020 | PCTPOV517_2020 | CI90LB517P_2020 | CI90UB517P_2020 | MEDHHINC_2020 | CI90LBINC_2020 | CI90UBINC_2020 | POV04_2020 | CI90LB04_2020 | CI90UB04_2020 | PCTPOV04_2020 | CI90LB04P_2020 | CI90UB04P_2020
  - POVALL_2020: Estimate of people of all ages in poverty 2020
  - CI90LBAll_2020: 90 percent confidence interval lower bound of estimate of people of all ages in poverty 2020
  - CI90UBALL_2020: 90 percent confidence interval upper bound of estimate of people of all ages in poverty 2020
  - PCTPOVALL_2020: Estimated percent of people of all ages in poverty 2020
  - CI90LBALLP_2020: 90 percent confidence interval lower bound of estimate of percent of people of all ages in poverty 2020
  - CI90UBALLP_2020: 90 percent confidence interval upper bound of estimate of percent of people of all ages in poverty 2020
  - POV017_2020: Estimate of people age 0-17 in poverty 2020
  - CI90LB017_2020: 90 percent confidence interval lower bound of estimate of people age 0-17 in poverty 2020
  - CI90UB017_2020: 90 percent confidence interval upper bound of estimate of people age 0-17 in poverty 2020
  - PCTPOV017_2020: Estimated percent of people age 0-17 in poverty 2020
  - CI90LB017P_2020: 90 percent confidence interval lower bound of estimate of percent of people age 0-17 in poverty 2020

        - CI90UB017P_2020: 90 percent confidence interval upper bound of estimate of percent of people age 0-17 in poverty 2020
        - The rest of the column names follow a similar pattern
- **csvs**
    - **UsElection2020.csv**
    - **EducationByCounty.csv**
    - **PovertyByCounty.csv**
    - **UnemploymentAndIncomeByCounty.csv**
    - **PopulationEstimates.csv**

Task Breakdown:

HTML/CSS: Wanying

JS: James

Flask: Selena

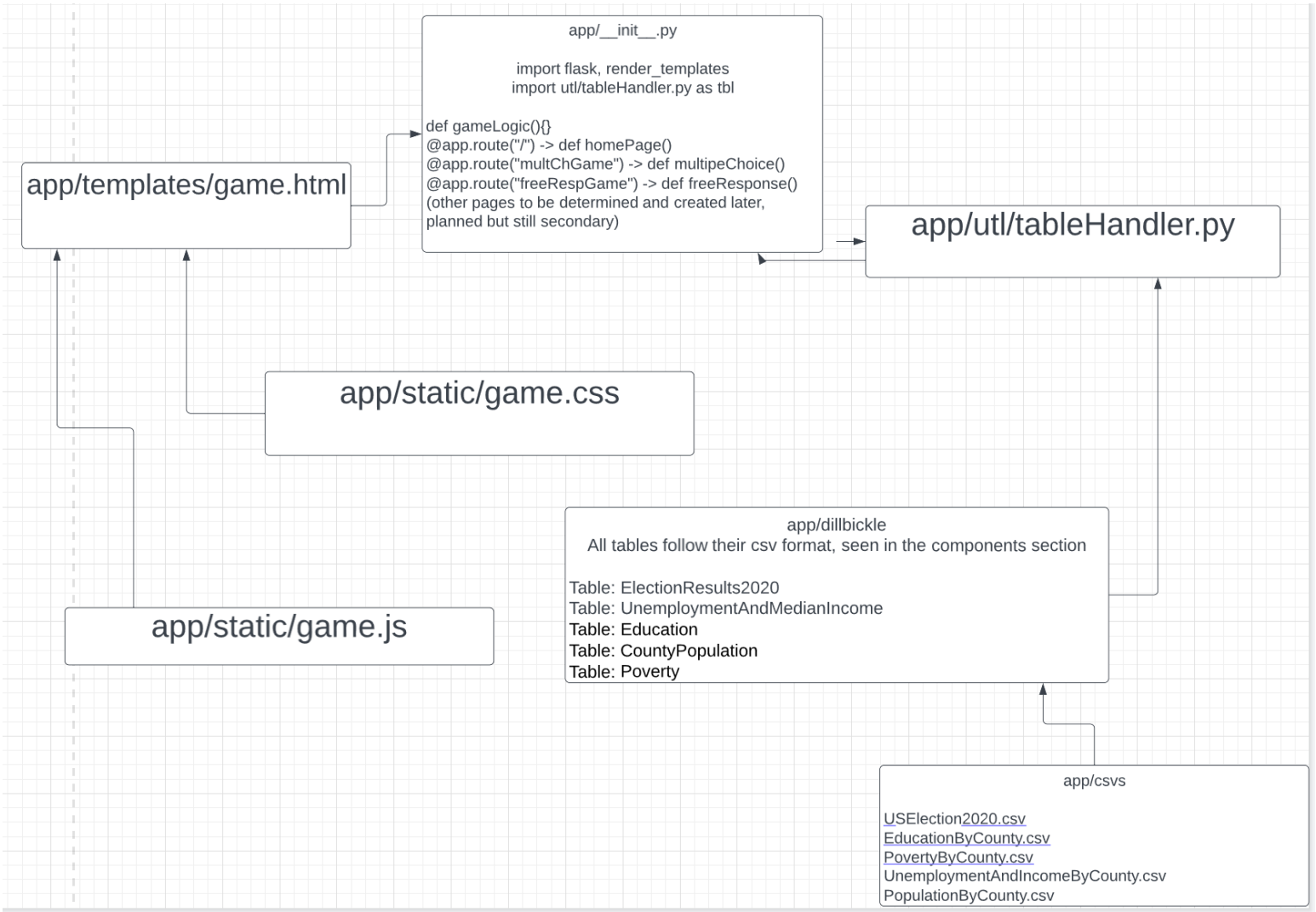
Database: Sadi

APIs Used: N/A for now

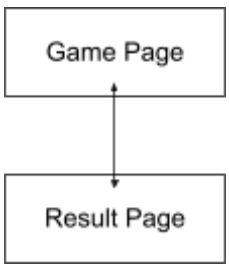
Front End Frameworks: Bootstrap

- Main features to use:
    - container, grid, gutter
        - for layout of the game.html
    - form-control form-control-color
        - allow users to pick a color for their graph
    - datalist
        - provide autocomplete options to users when they try to search up a county
    - form-select
        - dropdown for user to select a mode/representation for their graph (for ex: scatter plot, histogram)
        - for layout of multiple choice options

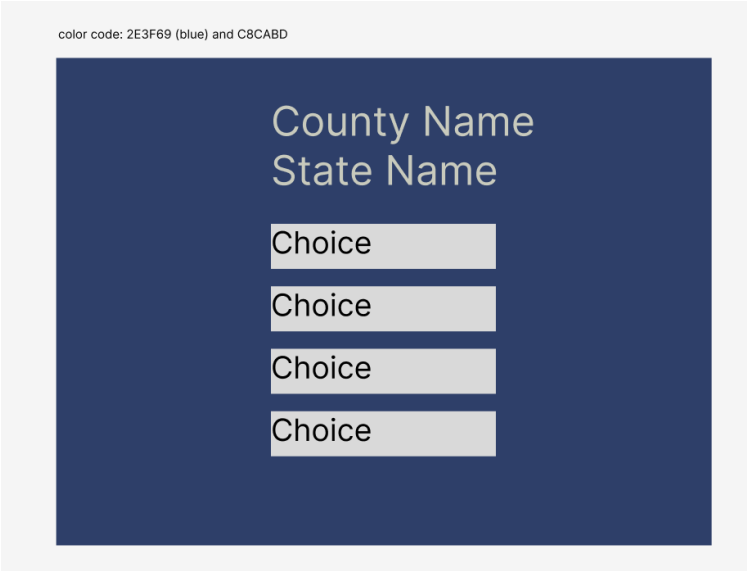
Component Map:



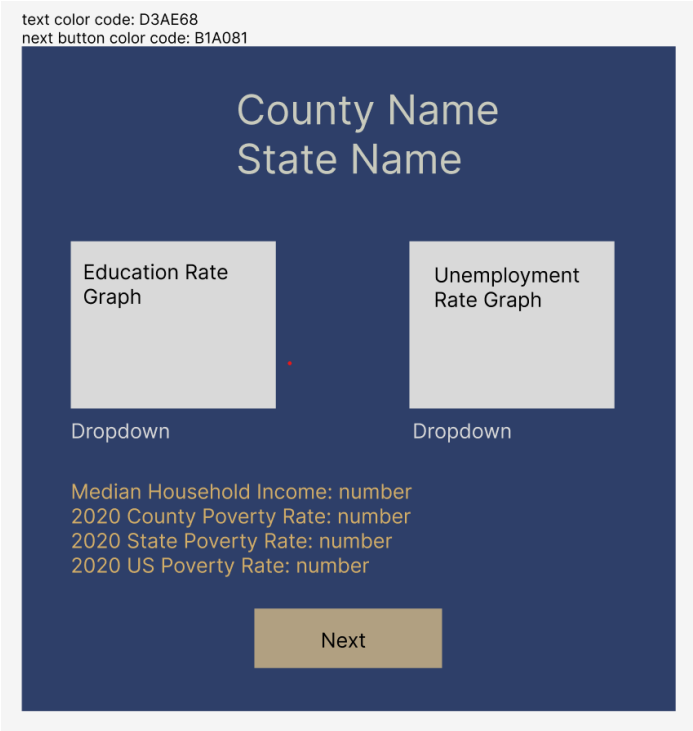
Site Map:



Simple Mockup:
Landing page:



Guess is made →



- Only one page: initially only displays county name and state with the answer choices below

- Once guess is made → graphs displayed, answer choices no longer displayed
    - Dropdowns under graphs to change how the data is displayed
- Next button: displays the original view user sees (name of county plus choices) but just with a different county