2020 Election Test Cases

**Testing the homepage of application**

Back-end

Connection to Database

Fill in correct username/password

Prompt user with 4 options:

1. Get statistics
2. Insert Data
3. Data Mine
4. Exit

Wrong credentials

Prompt user for username/password

‘4’ key was pressed

Keys ‘1’ , ‘2’ or ‘3’ were pressed

Inputting any other key

**Testing Statistics Fetching (‘1’ key as input from homepage)**

Homepage

**If**

Fetch Query from Database

And Display results

‘7’

‘6’

‘5’

‘4’

‘3’

‘2’

‘1’

Prompts user for next steps:

1. Voting results for a state
2. Voting results for all states
3. Voting results for a county
4. Voting results for all counties in a state
5. Get the most popular tweets from a state
6. Demographics of a state
7. Demographics of a county

(Any other key ) Exit

Any other key was pressed

‘1’ key was pressed

Back-end

If ‘1’

1. prompt user for state name (prompt again if invalid state name)
2. after fetching results of query, prompt user to continue(Y/N)
3. if ‘y’, go back to step 1, if ‘n’ go to 7 option statistics page

If ‘2’

* 1. fetch query from database and display results
  2. if ‘y’, go back to step 1, if ‘n’ go to 7 option statistics page

If ‘3’

1. prompt user for state name (prompt again if invalid state name)
2. fetch query of all counties in state
3. prompt user for one of the counties displayed (prompt again if invalid county name)
4. display query of votes for county
5. after fetching results of query, prompt user to continue(Y/N)
6. if ‘y’, go back to step 1, if ‘n’ go to 7 option statistics page

If ‘4’

1. prompt user for state name (prompt again if invalid state name)
2. fetch query of all counties in state
3. prompt user for one of the counties displayed (prompt again if invalid county name)
4. display query of votes for all counties in that state
5. after fetching results of query, prompt user to continue(Y/N)
6. if ‘y’, go back to step 1, if ‘n’ go to 7 option statistics page

If ‘5’

1. prompt user for state name (prompt again if invalid state name)
2. prompt user to choose trump or biden as keys 1 or 2(any other key pressed then prompt user again)
3. prompt user for number of tweets they want to see
4. after fetching results of query, prompt user to continue(Y/N)
5. if ‘y’, go back to step 1, if ‘n’ go to 7 option statistics page

If ‘6’

1. prompt user for state name (prompt again if invalid state name)
2. after fetching demographic results of query, prompt user to continue(Y/N)
3. if ‘y’, go back to step 1, if ‘n’ go to 7 option statistics page

if ‘7’

1. prompt user for state name (prompt again if invalid state name)
2. fetch query of all counties in state
3. prompt user for one of the counties displayed (prompt again if invalid county name)
4. display query of demographics of the county in that state
5. after fetching results of query, prompt user to continue(Y/N)
6. if ‘y’, go back to step 1, if ‘n’ go to 7 option statistics page

**Testing Insert Functionality (‘2’ key as input from homepage)**

Homepage

‘2’ key was pressed

Invalid state name

Prompt user for state name

Back-end

Fetch Query from Database

And Display results

Invalid key

Ask user if they want to update county? (Y/N)

Invalid input

‘n’ key was pressed

‘y’ key was pressed

Ask user if they want to update county? (Y/N)

INSERT query with a confirmation message on a successful insert

Prompt user to write a comment

Invalid input

Prompt user to pick a party/county to comment on

Fetch party results with vote numbers (either for county or state)

Invalid input

Fetch list of counties and prompt user to type one

‘n’ key was pressed

‘y’ key was pressed

**Testing Data Mining Option (‘3’ key as input from homepage)**

Back-end

‘n’ key was pressed

‘y’ key was pressed

Ask user if they want to continue?

Fetch Data Mining Results

Fetch data mining results

‘3’ key was pressed

Homepage