WEEK 1:

Requirements -
- Get tweets about a subject
    - via Twitter API
- Perform sentiment analysis on tweets
    - via TextBlob Library
- Search and filter for states and show representatives
- Show data for sentiment analysis on the tweets (both numerically/plot)
- Show data analysis for which states tweet the most and which politicians are mentioned the most (both numerically/plot)
- Website UI
- Website functionality
- Testing
    - Test sentiment analysis on sample tweets

Week 1 Rubric -

Category	Weight	Scoring
Basic Preparation	2	0-1
Cleverness	2	0-2
Rubric for Next Week	2	0-1
Code Submission	4	0-2
Decomposition	4	0-2
Documentation	4	0-2
Effort	2	0-2
Naming	2	0-2
Overall Design	5	0-2.5
Participation	5	0-2.5
Presentation	4	0-2
Twitter API (Shreya)	5	0-2.5
Sentiment Analysis (Shreya)	5	0.2-5
Basic Search and Filter (Gabe)	2.5	0-2.5
Show Data Analysis (Gabe)	2.5	0-2.5
Website Functionality (Gabe)	2.5	0-2.5
Website UI (Gabe)	2.5	0-2.5
Testing (Shreya)	2.5	0-2.5
Testing (Gabe)	2.5	0-2.5

Week 2:
- Get facebook comments from a post about a subject
    - via Facebook Graph API
- Perform sentiment analysis on comments
    - via Google Cloud Natural Language API
- Show data for sentiment analysis on the comments (both numerically/plot)
- Create algorithm to combine analyses of data
- Filter results by sentimentality
- Testing
    - Test sentiment analysis on sample comments
    - Test combining algorithm

Week 2 Rubric -

Category	Weight	Scoring
Basic Preparation	2	0-1
Cleverness	2	0-2
Rubric for Next Week	2	0-1
Code Submission	4	0-2
Decomposition	4	0-2
Documentation	4	0-2
Effort	2	0-2
Naming	2	0-2
Overall Design	5	0-2.5
Participation	5	0-2.5
Presentation	4	0-2
Facebook API (Shreya)	5	0-2.5
Sentiment Analysis (Shreya)	5	0.2-5
Filter Results by Sentimentality (Gabe)	2.5	0-2.5
Show Data Analysis for Facebook and Twitter (Gabe)	2.5	0-2.5
Create Algorithm to combine all Sentiment Data (Gabe)	2.5	0-2.5
Show Facebook Results (Gabe)	2.5	0-2.5
Testing (Shreya)	2.5	0-2.5
Testing (Manual Test Plan) [Gabe]	2.5	0-2.5

Week 3:
- Get reddit headlines about a subject
    - via Reddit API
- Perform sentiment analysis on comments
    - via Natural Language Toolkit Library/Vader
- Show data for sentiment analysis on the headlines (both numerically/plot)
- Data analysis
    - Update analysis with Reddit data
- Polish UI
- Testing
    - Test sentiment analysis on sample headlines
    - Test combining algorithm

Week 3 Rubric -

Category	Weight	Scoring
Basic Preparation	2	0-1
Cleverness	2	0-2
Rubric for Next Week	2	0-1
Code Submission	4	0-2
Decomposition	4	0-2
Documentation	4	0-2
Effort	2	0-2
Naming	2	0-2
Overall Design	5	0-2.5
Participation	5	0-2.5
Presentation	4	0-2
Reddit API (Shreya)	5	0-2.5
Sentiment Analysis (Shreya)	5	0.2-5
Show Reddit Data on Site (Gabe)	2.5	0-2.5
Update Plot Analysis with Reddit Data (Gabe)	2.5	0-2.5
Polish UI (Gabe)	2.5	0-2.5
Functionality to Store History of Searches (Gabe)	2.5	0-2.5
Testing (Shreya)	2.5	0-2.5
Testing (Manual Test Plan) [Gabe]	2.5	0-2.5

Week 4:
- Build profile page for each politician
    - Collective analyses from each form of social media
    - Scrape information about the politician from their Wikipedia page
- Reddit API and Sentiment Analysis
    - Updating Plot Data after getting Reddit data
- Displaying all data (including Twitter data) on local host server
- Testing
    - Test sentiment analysis on sample tweets and posts
    - Create manual test plan

Week 4 Rubric -

Category	Weight	Scoring
Basic Preparation	2	0-1
Cleverness	2	0-2
Rubric for Next Week	2	0-1
Code Submission	4	0-2
Decomposition	4	0-2
Documentation	4	0-2
Effort	2	0-2
Naming	2	0-2
Overall Design	5	0-2.5
Participation	5	0-2.5
Presentation	4	0-2
Reddit API and Sentiment Analysis (Gabe)	5	0-2.5
Scraping Data from Wikipedia for Profile Page (Gabe)	5	0-2.5
Updating the Plot Data (Gabe)	5	0-2.5
Displaying all Data on Website (Gabe)	5	0-2.5
Testing (Gabe)	5	0-2.5

Resources for Us:
Sentiment analysis: https://monkeylearn.com/sentiment-analysis/
Twitter: https://www.geeksforgeeks.org/twitter-sentiment-analysis-using-python/
Facebook/Google:
https://medium.com/google-cloud/sentiment-analysis-of-comments-on-lhls-facebook-page-9db8b3a60eb3
Reddit:
https://www.learndatasci.com/tutorials/sentiment-analysis-reddit-headlines-pythons-nltk/

If we want to scrape approval ratings:
https://morningconsult.com/2019/01/10/americas-most-and-least-popular-senators-q4-2018/