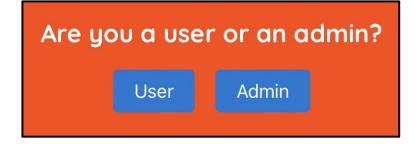
Reddit Distributed Database

Joshua Payapulli, Armand Patel, Paul Yoo

Tech stack

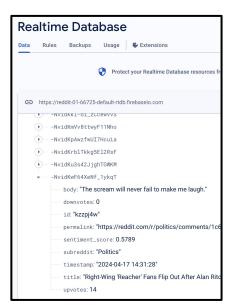
- ReactJS was used to develop the front end of the website
 - Live Table was created to display reddit entries
 - Several buttons created to navigate website
- Flask was used on the backend to create functionality behind the buttons on the app
- GitHub repository stored all of our data and code





Integration with Firebase Realtime Database

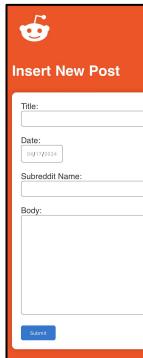
- The "praw" library was used to scrape information about the upcoming election from Reddit posts
- Firebase Realtime Database used to store all information about posts in JSON format
- Firebase was integrated with the web application along with query functions/buttons



Data Management Functionality

- Implemented functionalities in the app that allow users to:
 - Insert new Reddit posts:
 - Date
 - Title
 - Content
 - Subreddit Name
 - Update existing Reddit posts:
 - Allow users to select a post from the displayed list
 - Edit details
 - Delete Reddit posts:
 - Provide options for users to delete specific posts from the database





Sentiment Analysis

- NLTK package
 - Score every words in Reddit comment for quantification of expression
 - compound the scores for 'sentiment_score' data value in database
- 'Sentiment_score' represents positive or negative impression using the scale between 1 and -1
- The closer to 1, the positive, the closer to -1, negative.
 Neutral for 0
- By parsing the 'title', the title of reddit post where the comment left, to find whether the keywords Trump, Biden, Republican, Democrat included in the title. If yes, the score is related to the keywords.
- Using the keywords and score, find average

