Team 7 Assignment #3

For this prototype, we used Flask running on a Compute Engine backend, connected to the Flutter front end. We chose Flutter so that we can develop simultaneously for Android and iOS. We didn't put too much thought into using other technology stack's because Flutter appears better suited for the type of app we've decided to develop and the programming experience of our team members.

The backend is constructed with a custom API built in Flask, powered by OpenAI's GPT-2 predictive language model. We chose to use this model as it was open-source and freely available to use, with very effective text generation results.

Scallion Deliverable

For our app, we used flask running on a Google Cloud compute engine backend connected to a Flutter front end. We chose to make our app in Flutter because we wanted to learn something new through this process as Flutter was relatively new to most of our group members and we liked Flutter based on demonstrated performance of a pre-designed app. Additionally, Flutter allowed us to develop simultaneously for iOS and Android.

When deciding what stack to use for our app we were quick to decide neither the MEAN nor LAMP stack because as a whole our team didn't have enough experience to implement them. Flutter was new but seemed like it might be more manageable for our group.

We constructed the backend with 3 API's: a custom API built in flask with OpenAI's GPT-2 predictive language model, the News API, and the Newspaper 3K API. We chose the gpt-2 model because it is open-source and has very effective text generation results. The News and Newspaper 3K API's will help make the user generated articles more specific to the user's requests by pulling from current news articles and using article scraping to extract the useful text from said articles.