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## SoftDev p1 Design Doc

### Project Summary

We will do everything a basic news site should. We grab articles from a variety of sources and put their titles, images, and links on our website in the form of cards. There will be a homepage which has general articles, and a page for each of our topics, which will have information about more specific things. We will also have stock and weather information on the side of our screens.

### Extra Features(Post MVP)

- Profile page which allows users to set preferences
- search bar to search for articles.
- ~~-include storySpec opinoin~~
- ~~-Genghis Khan or article written by other historical figure written by OpenAI.~~

### Task Breakdown

- ☒ ~~Design doc due Tuesday 12-06-2022~~
- ☒ ~~Repo structure — upload all basic~~
- ☒ ~~Account Storage in databaes — Anson~~
- ☒ ~~Article Storage in database — Anson~~
- ☒ ~~Basic Bootstrap(Enough to display website) — Kosta~~
- ☒ ~~More advanced bootstrap(navbr, etc?) — Kosta~~
- ☒ ~~Integration of core APIs — Daniel~~
- ☐ ~~Extraneous APIs for extra functionality — Daniel~~
- ☒ ~~MVP Flask — Sam~~
- ☐ ~~Flask for possible extra webpages — Sam~~

### APIs In Use

1. Newsapi- a large variety of features including top headlines of the day. Limit 100 requests/day
2. Yahoo Finance - get stock data for users
3. Open Weather - get weather data of the day.

## Components

Database(sqlite3) - manage storage of account information

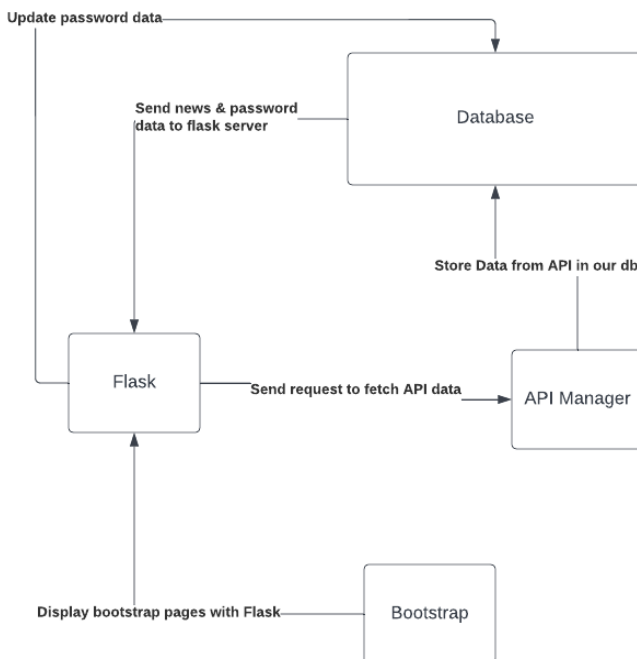
Backend(python) - procure relevant news article headlines and get data from many different news apis about that headline. Send all this information to the Database for later use. Call the api once, use the api data ∞.

Frontend(flask) - manage sessions and display templates which are styled using bootstrap.

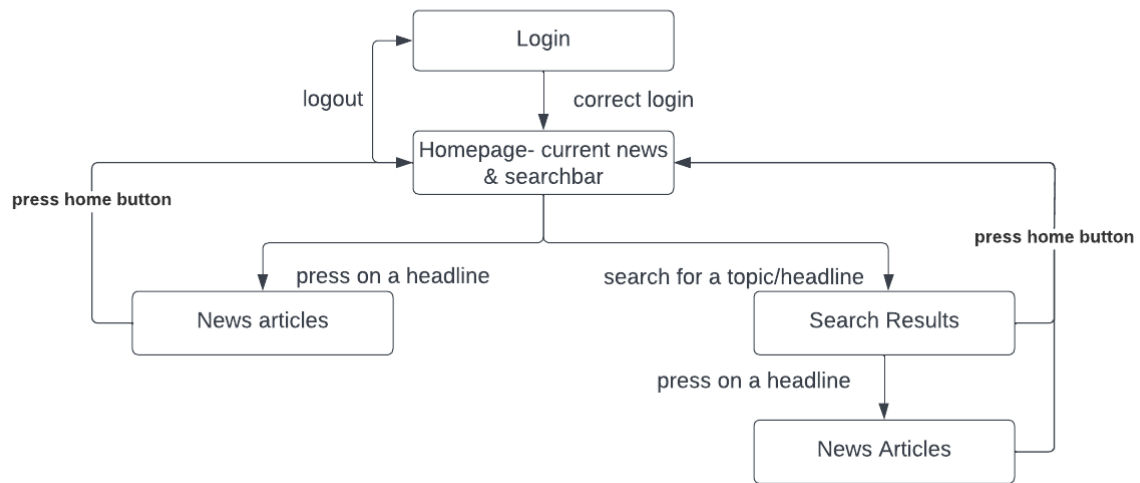
Retrieve news data from the Database. This component should not ever be making API calls.

Frontend(Bootstrap) - format news articles and other important features in an organized-looking grid.

## Component Map



## Site Map



## Database Organization

Username	Password

Title	Author	Summary	Url	Image Url	Genre

## Frontend Framework in Use(+why/how)

Bootstrap - <https://getbootstrap.com/>

### Reasoning:

Unanimously decided to use Bootstrap because of more appealing aesthetics and more accessible/clear primary documentation.