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Target ship date:2022-12-16

SoftDev p1 Design Doc

Project Summary

MVP

News Site which

- 1: chooses the top headlines for the day and puts them in a list
- 2: for each headline, find a few articles and display cards for them showing a short summary

Extra Features

- Weather data, Stock data, etc.
- include stuySpec 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 Likely to be Used

Newsapi- a large variety of features including top headlines of the day. Limit 100 requests/day

TheNew

Bloomberg API

Newsdata API

New York Times API

Contify API

Newscatcher News API

HackerNews API

Social Animal news API (Google's new news API)
Aylien News API

APIs we might use(not required for MVP)

Financial Times API

Yahoo Finance API

Bing API

Connexun News API (** NLP classification, topic ranking, and extraction-based summarization)

NewsX- ml powered summaries

<https://newsdata.io/blog/best-news-api/> ^

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 ∞.

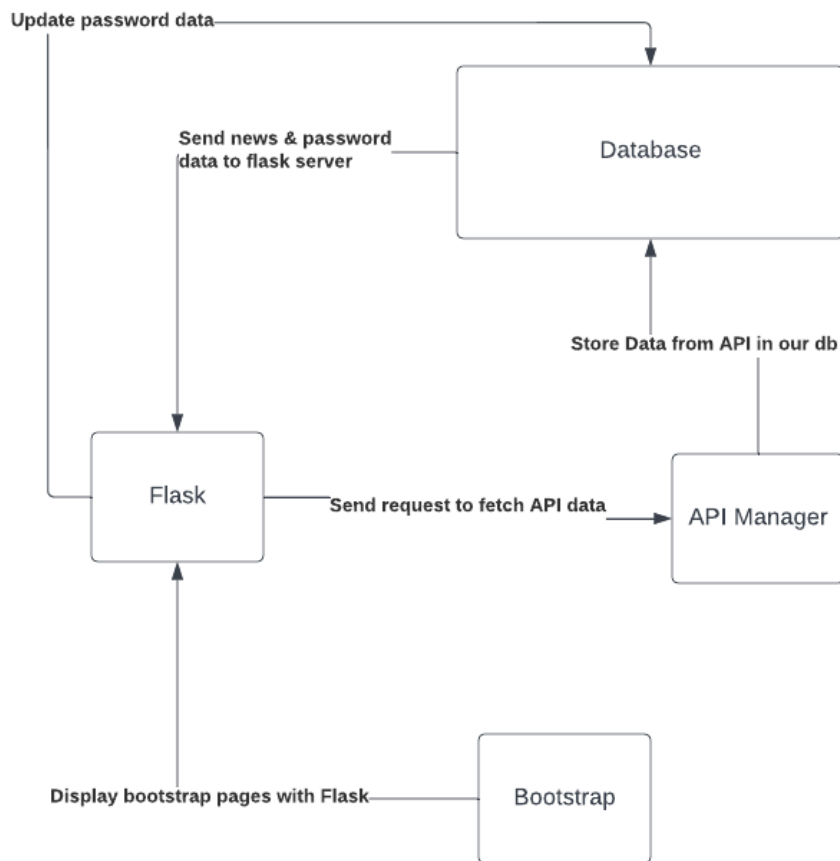
Frontend(flask) - manage sessions and display templates which are styled using bootstrap.

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.

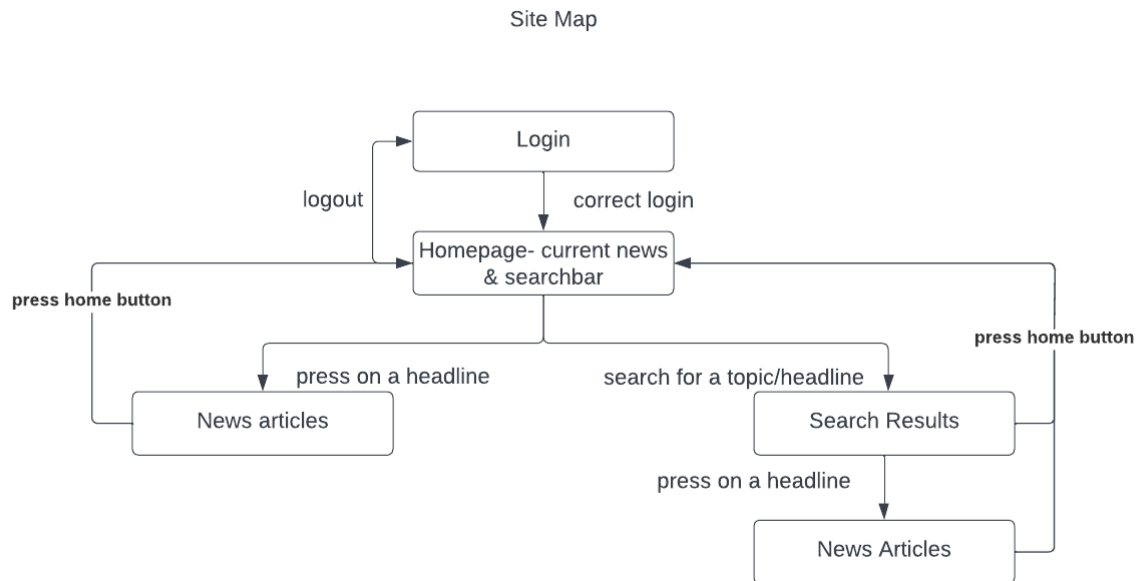
Component Map

https://lucid.app/lucidchart/c7655927-f60b-4cf8-af83-bb0d9f3056cd/edit?viewport_loc=-79%2C-60%2C2219%2C1065%2C0_0&invitationId=inv_5fdabd2b-ed3d-44c9-a866-4ff2e751c7fe



Site Map

https://lucid.app/lucidchart/ac73f8a0-722e-4bfe-9045-20e2bbcf6a2f/edit?view_items=NKQbYHC2YJnp&invitationId=inv_16d5ba51-431b-4435-9d60-897fd72c0227



Database Organization

Username	Password

Article Id	Article Content

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.