We're Witty Wombats :: Shreya Roy, Kosta Dubovskiy, Jeffrey Zou, Shafiul Haque
SoftDev
P04
2022-05-01
time spent: 04 hrs

Target ship date: 2022-05-30

Design V.0 for WEEATS

Goal:

Creating interactive maps of the US detailing the location of fast food restaurants, with filtering options available by chain.

Idea: we could include this ^ idea, and generalize it further by analyzing consumerism trends in the United States in multiple facets. For example, we could look at the ratio of how much Americans spend on fast food(or eating out in general) vs the agricultural production. Track prices of fast food over time compared to inflation(is the *real* price growing, or just keeping up with inflation).

APIs Utilized:

Map API:
https://github.com/stuy-softdev/notes-and-code/blob/main/api_kb/411_on_Google_Maps_Platform.md

Program Components:

- Database
    - Stores necessary information
- Frontend

- ○ Displays our website and the visualization of data to our users
- Python + Flask
  - ○ Renders website pages
  - ○ Database setup
  - ○ API requests to populate database
- Bootstrap framework
  - ○ Creates cool visualizations of data
  - ○ Makes our website look more pretty
- APIs
  - ○ Provides information for our database tables
-
-
-
-

<u>Frontend Framework Chosen: Bootstrap (+ TailwindCSS?)</u>
- Why: Ease of use, aesthetics, and previous experience
- How: Import Bootstrap CSS/JS via link tag, install TailwindCSS if it becomes helpful for our purposes.

<u>Backend:</u>
- Flask/Python: required to create website framework
- D3.js: https://observablehq.com/@d3/gallery
  - ○ To power our animations

<u>DB:</u>
- MySQL database: large and efficient data storage

<u>Dataset:</u>
Fast Food Restaurant
https://www.kaggle.com/datasets/rishidamarla/fast-food-restaurants-in-america

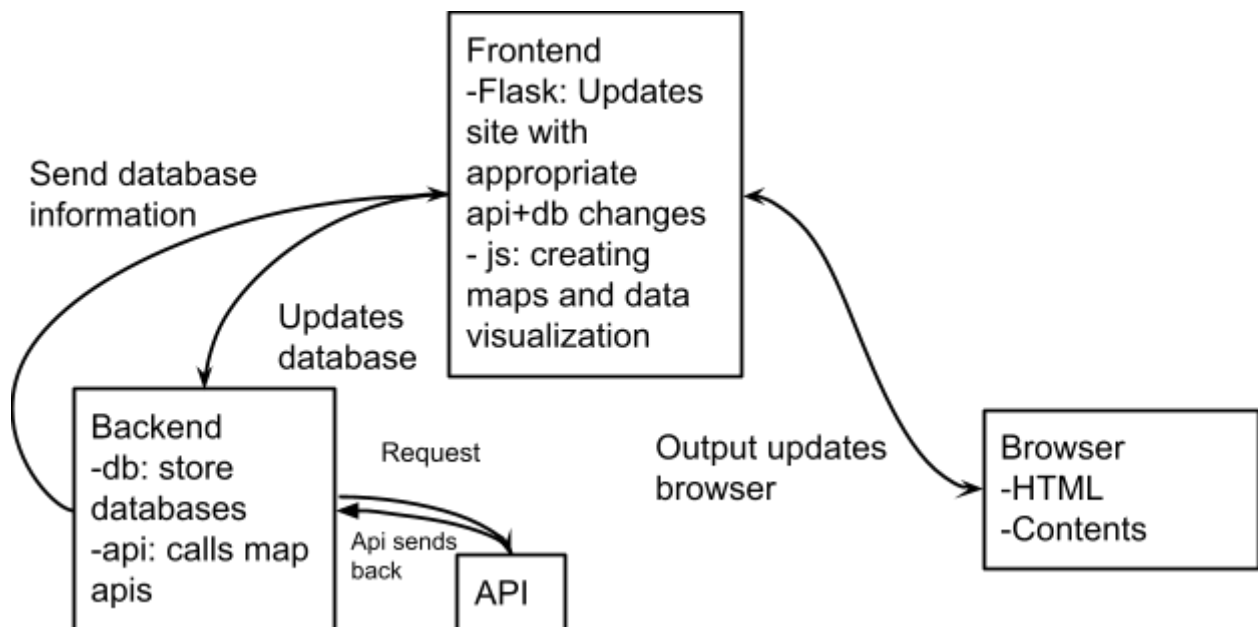Fast Food Nutrition
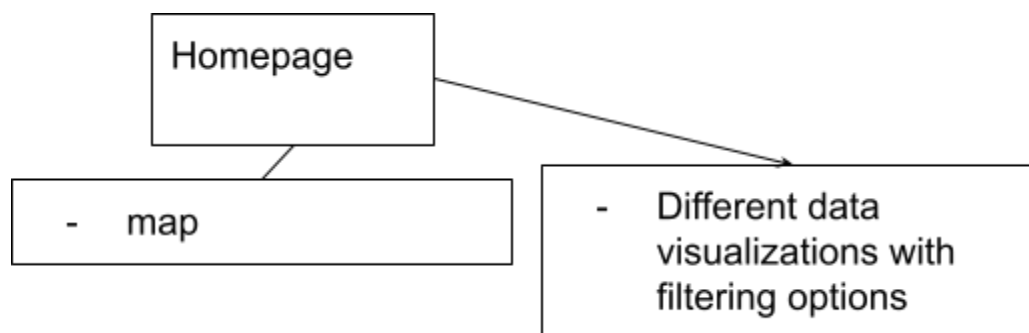https://www.kaggle.com/datasets/ulrikthygepedersen/fastfood-nutrition
Fast Food Store Images
https://www.kaggle.com/datasets/rohan0301/fast-food-store-images-mcdkfcbksubwaysbucks

Component Map:

Database Organization:

Site Map:

Breakdown of Tasks:

```
PM: Shreya
Frontend (flask, js, css):
     Flask: Jeffrey
     Js: Shreya & Kosta
     Html & Css: Shafiul
Backend (db & api):
     Db: Kosta & Shafiel
     Api: Jeffrey
```