

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

Frontend Framework Chosen: Bootstrap (+ TailwindCSS?)

- 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.

Backend:

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

Html Templates:

- Main landing page: has a logo of the website and a brief description
- Login page: users would be able to login
- Signup page: users would be able to sign in
- Home page: users can choose maps they want to see
- Individual map page: users can interact with the map and click on locations
- Location page: users would learn more information about the location of the fast food restaurant,

such as address, the types of food available, and hours of operation

Flask App:

- Helps display the html files through paths for certain linkages
- `__init__.py`: routes to connect to HTML files

SQLITE DB:

- MySQL database (`db.py`): large and efficient data storage
- Has functions that can be used to add/delete information in the database tables

FAST FOOD LOCATIONS

Chain Name	Latitude	Longitude	Address Text	Website Link
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FAST FOOD CHAIN INFORMATION

Chain Name	Item Name	Calories	Total Fat	Chain Image (if available)
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Dataset:

Fast Food Restaurant

<https://www.kaggle.com/datasets/rishidamarla/fast-food-restaurants-in-america>

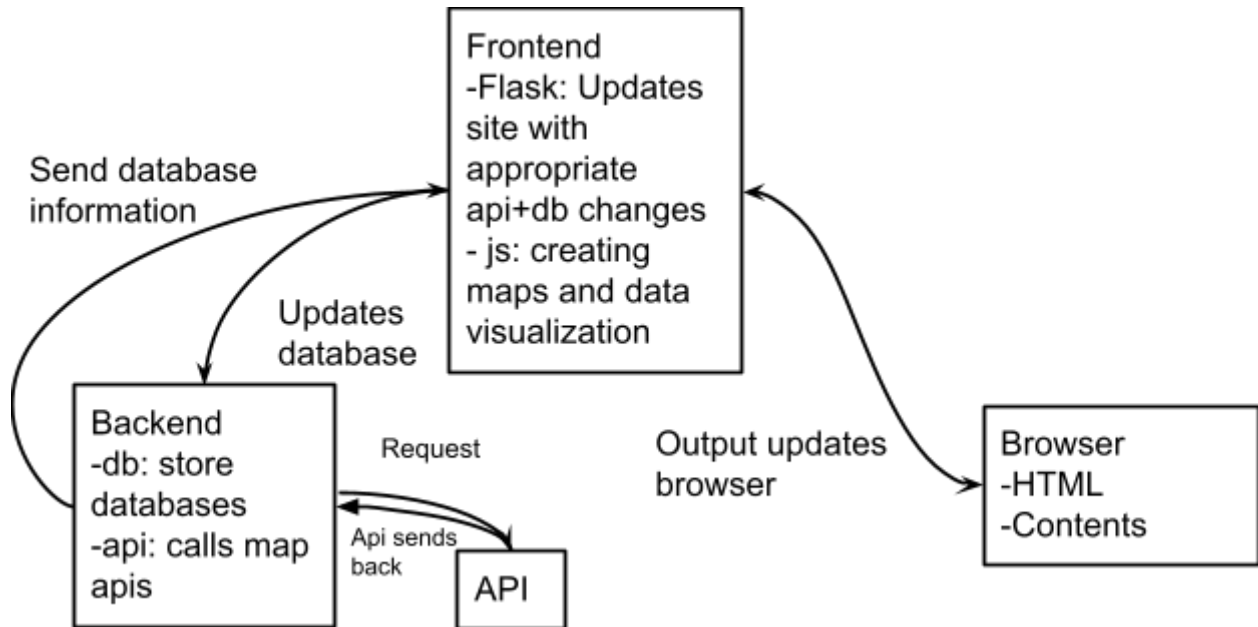
Fast Food Nutrition

<https://www.kaggle.com/datasets/ulrikthygepedersen/fast-food-nutrition>

Fast Food Store Images

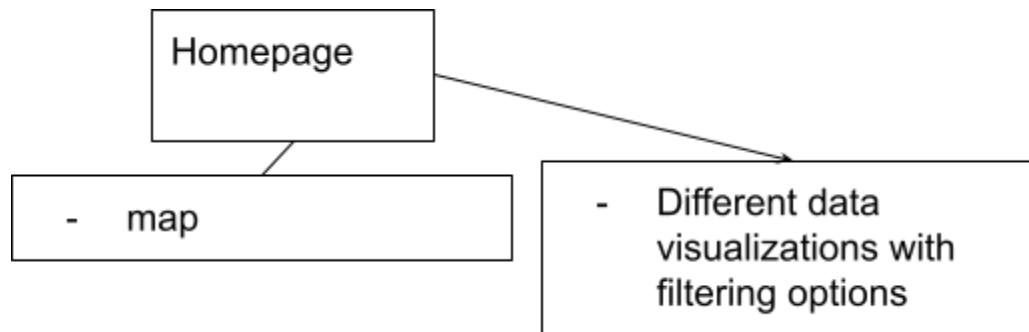
<https://www.kaggle.com/datasets/rohan0301/fast-food-store-images-mcdkfcbksubwaysbucks>

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 & Shafiul

Api: Jeffrey