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SoftDev

P04

2022-05-01

time spent: 04 hrs

Target ship date: 2022-05-30

Design V.O 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 regarding fast food locations & nutrition, to be represented graphically.

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

## JS

# 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: <a href="https://observablehq.com/@d3/gallery">https://observablehq.com/@d3/gallery</a>
- <a href="https://observablehq.com/@mbostock/walmarts-growth">https://observablehq.com/@mbostock/walmarts-growth</a>

# Html Templates:

- Main landing page: has a logo of the website and a brief description
- 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	Latitude	Longitude	Address	Website
Name			Text	Link

#### FAST FOOD CHAIN INFORMATION

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

#### Dataset:

Fast Food Restaurant

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

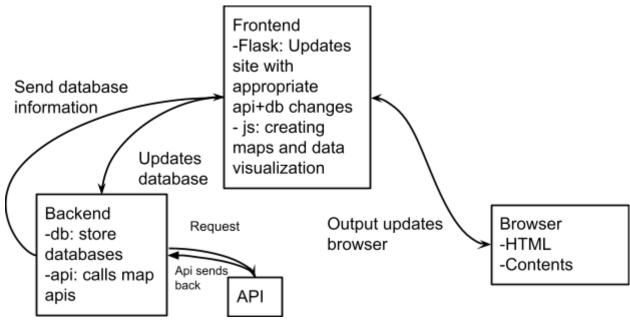
Fast Food Nutrition

https://www.kaggle.com/datasets/ulrikthygepedersen/fas
tfood-nutrition

Fast Food Store Images

https://www.kaggle.com/datasets/rohan0301/fast-food-st
ore-images-mcdkfcbksubwaysbucks

# Component Map:



# Database Organization:

# Site Map:

