

TNPG:Senior SLEePeR

Roster: Ryan Lau, Lauren Lee, Elizabeth Paperno, Sasha Shifrina (PM)

SoftDev Pd 7

P05 - 🌱

2023-05-30

Time Spent: 3 hrs

Idea

A web app that aggregates prices of produce onto our website to allow the customer to compare prices from their nearby grocery stores.

- User will be able to search and select stores based on their location
- Search for produce, and price compare between stores selected
- Add to cart and view cart breakdown

Possible stores:

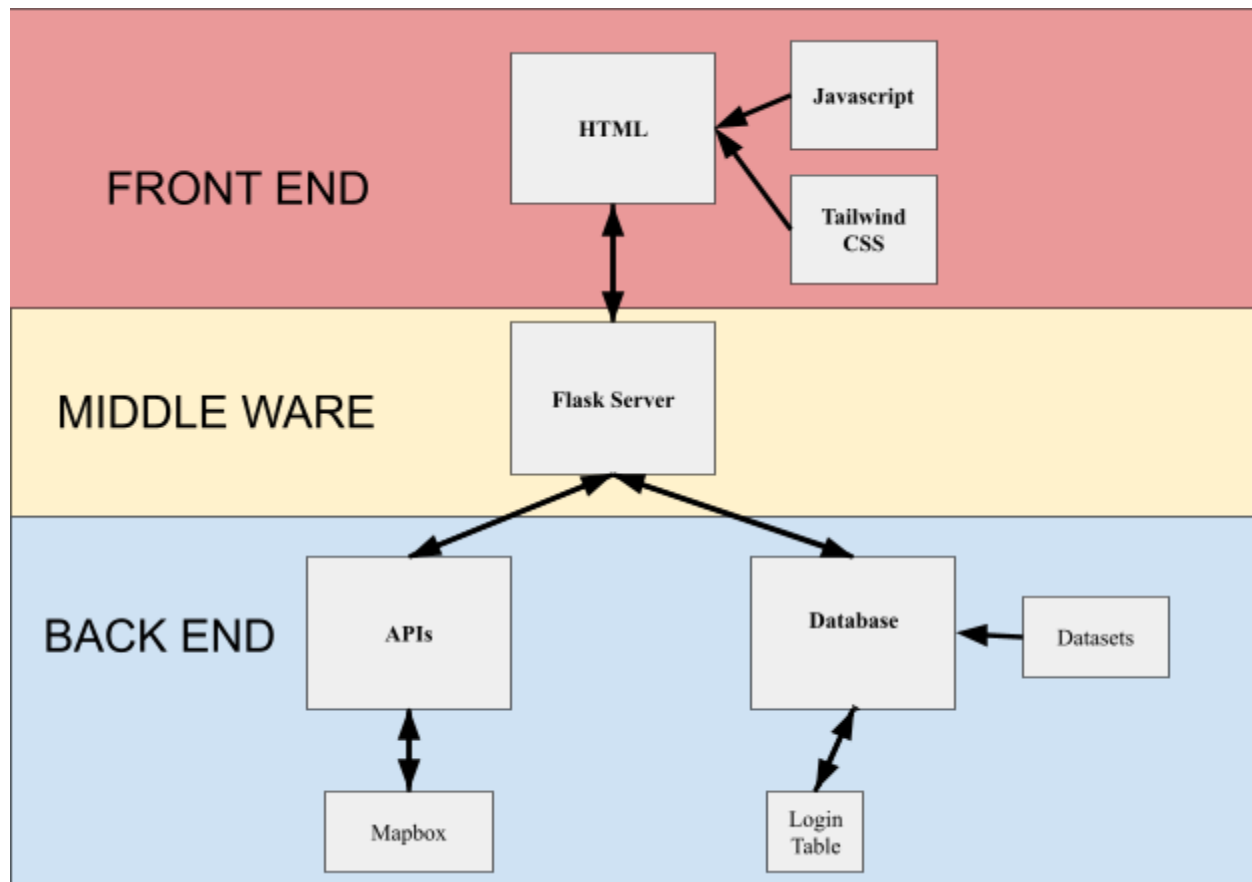
- WholeFoods
- Walmart
- Target
- BJ's
- Costco
- Kroger
- TJ
- KeyFood
- Wegmans
- Stop&Shop
- ShopRite

Program Components

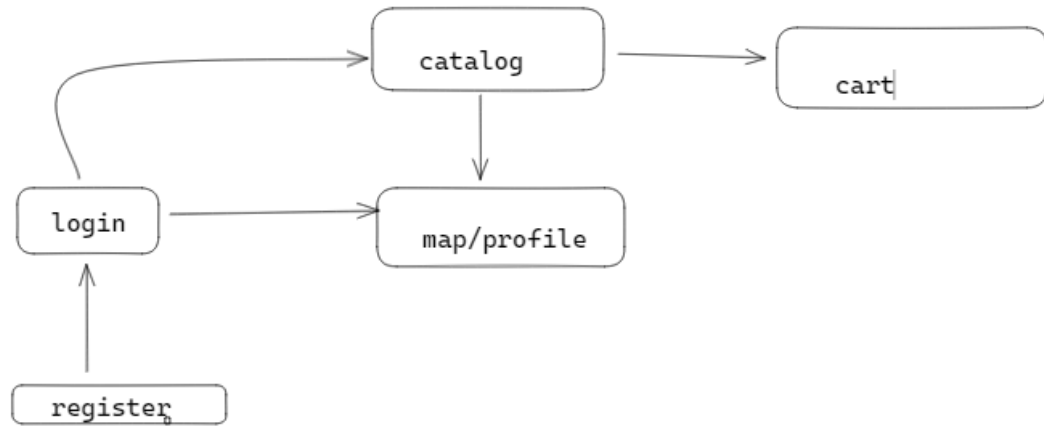
- app/
 - templates/
 - login.html
 - register.html
 - catalog.html
 - **Potentially** search by image, would use existing pytorch image recognition model
 - results.html
 - cart.html
 - Each item selected, how many items at each store, best route (potentially)
 - profile.html
 - User chooses home stores
 - static/

- css/
 - style.css
- js/
 - script.js
- db/
 - P5.db
 - Database itself
 - Contains user, cart, and produce tables
 - auth.py
 - Login, register, etc.
 - cart.py
 - Functions to work with cart
 - produce.py
 - Create produce table through pulling scraped data
 - input_check.py
 - Checks username and password strength

Component Map



Sitemap



Database Structure

Users Table

username TEXT	password TEXT

Produce Table

id UNIQUE INT	product_name TEXT	img_url TEXT	weight FLOAT	price FLOAT	store_id INT

Cart Table

username TEXT	id INT	quantity INT

Stores Table

id UNIQUE INT	retailer TEXT	retailer_id INT	lon FLOAT	lat FLOAT	address TEXT

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API

- Mapbox to display stores on a map so users are able to choose stores visually

FEF

- TailwindCSS, Ryan is more comfortable with it compared to Bootstrap or Foundation

Potential Problems Faced:

- SKUs are not standard
- 3lb onion vs 1 onion - compare only those that are the same, display all onion options,

Roles

- Frontend: map (working with mapbox api), render pages, cart page
 - Ryan Lau
- Backend
 - Lauren: scrape supermarket data (probably split further)
 - Sasha: produce db using scraped data
 - Elizabeth: users db for login, query db/search
- Flask: Sasha, Ryan