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SoftDev

Period 7

2023-05-03

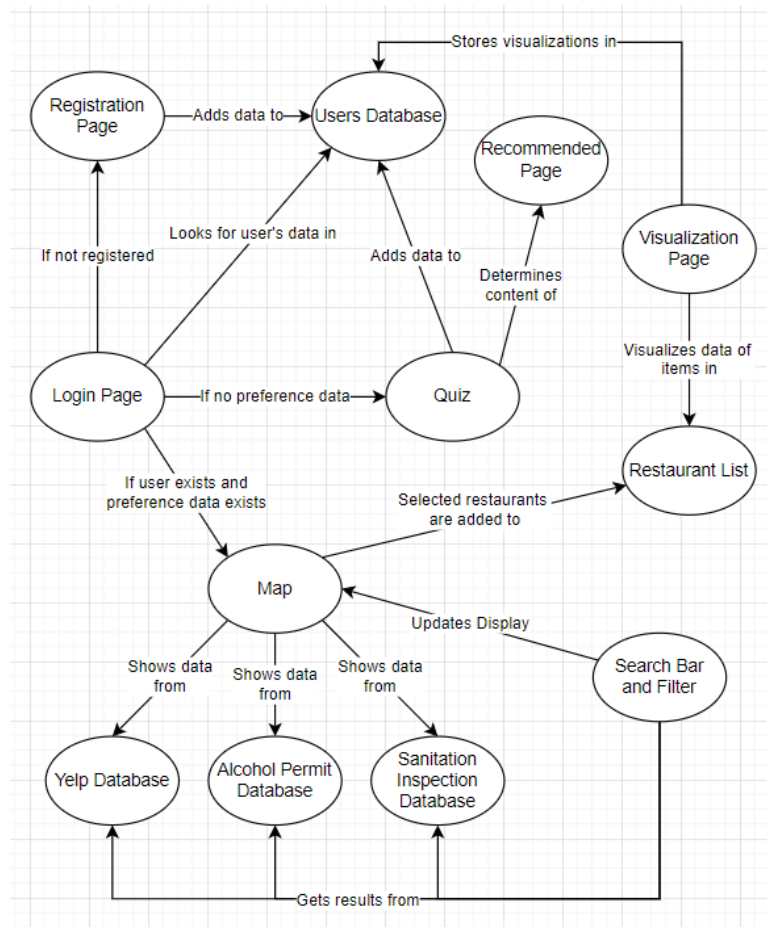
Target Ship date: 2023-05-24

NYC Restaurant Data Visualizer

Program Components:

- templates/
 - login.html, register.html
 - Allows users to login and register
 - preferencesQuiz.html
 - Allows users to list preferences, so we can later provide personalized recommendations (using forms)
 - dashboard.html
 - Map with filters like food category, takeout/delivery, parking, location, sanitation grade, location, etc.
 - Search bar to search restaurants by name or address
 - Data about restaurants in map radius
 - Graphical representations of food categories etc.
 - myRestaurants.html
 - Displays saved restaurants and visited restaurants (allows users to review them)
 - pastVisualizations.html
 - A page to store saved visualizations (snapshots of filtered data from dashboard) so it can be compared to other visualizations
 - recommendations.html
 - Recommended page to show a list of restaurants based on restaurants the user has previously visited and given good reviews to which also includes brief descriptions of the restaurants like a star rating, seating availability, food category, and dietary restrictions
- __init__.py
 - Runs app
- users.py
 - Deals with user data
- restaurants.py
 - Deals with restaurant data
- users.db
- restaurants.db
- style.css
- script.js

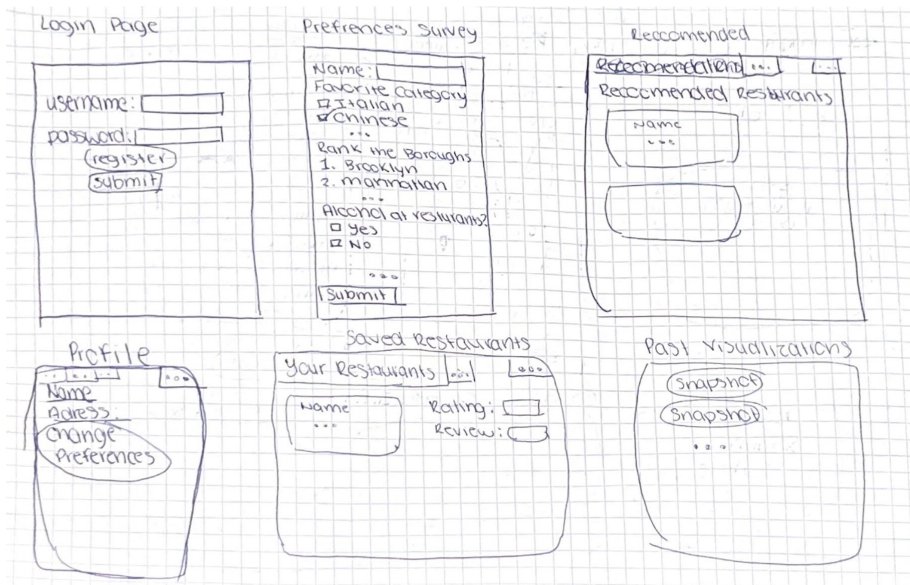
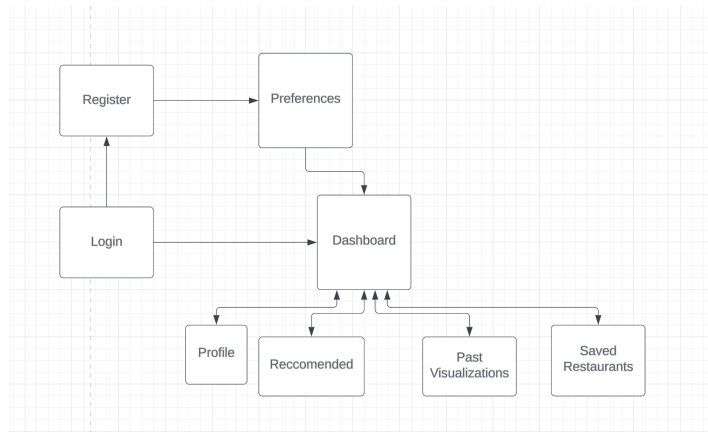
Component Map



Relation Between Components

- Login and registration pages create accounts with their own lists and saved visualizations
- Quiz for what users like in restaurants + past reviews → section for recommended restaurants
- Allows users to save restaurants they've been to and write reviews
- Display yelp reviews + sentiment of review
- Map displays filterable information about all restaurants in view
- In the map, users can select a set of restaurants to save to a list for data visualization later. Users can also choose a location and select all restaurants in a radius around that location
- Search bar takes users to a specific restaurant on the map
- Users can take a list they've created and visualize the data, then save that visualization to the users database

Site Map



APIs

Embedded Google Maps API (subject to change)

- <https://developers.google.com/maps/documentation/embed/get-started>

Database Structure

- USER TABLE
 - username TEXT
 - password TEXT
 - restaurants saved TEXT
 - restaurants visited TEXT
 - reviews TEXT
 - visualizations ?
 - Food category: [item0, item1] LIST
 - location TEXT
 - borough preference (ranked 1-5) DICT (like object)
 - alcohol preferences BOOL
 - preferred restaurant seating TEXT
 - dietary restrictions LIST
- RESTAURANTS TABLE
 - Restaurant name TEXT
 - Address TEXT
 - Takeout BOOL
 - Parking BOOL
 - Categories LIST
 - Hours DICT (like object)
 - Reviews DICT (like object)
 - Stars
 - Tag for tone
 - Date
 - Text
 - Alcohol BOOL
 - Sanitation inspection grades TEXT
 - Seating type TEXT
 - Dietary restrictions LIST
 - User reviews LIST

Databases Used

- Yelp Database - JSON: <https://www.yelp.com/dataset/documentation/main>
 - business.json
 - Name
 - Address
 - Takeout
 - Parking
 - Categories
 - Hours
 - review.json
 - Stars
 - Tag for tone
 - Date
 - Text
- Active and pending alcohol permits - JSON: <https://sla.ny.gov/public-query>
 - Active alcohol permits
 - Premise name
 - Method of operation
- Sanitation inspection grades:
<https://www.nyc.gov/site/doh/services/restaurant-grades.page>

Front End Framework

Using JS and potentially Node.js to provide easy interactivity with the page for the user.

- JS: interaction with user
 - Event listeners
 - Events
 - Functions
- Node (if used)
 - Faster/more efficient updating of DOM
- Bootstrap

Tasks

- Front End Design (JS, Bootstrap) - Abid, Kevin
- Database Work - Jeffery, Elizabeth
- Flask - Kevin, Jeffery
- API - Elizabeth, Abid