Bunch of Lunch Munches: Jeremy Kwok, Anthony Sun, Brianna Tieu, Vivian Teo
Soft dev
P04
2023-05-03

Target Ship Date: May 20th

Roles and Task Breakdown:
PM - Brianna
Effect PP Mode:
Front-end (HTML/CSS, Bootstrap, JS, Google Maps): Vivian, Brianna
Back-end (Database, Flask integration, parsing, Google Maps): Jeremy, Anthony

Dataset: New York City Restaurant Inspection Results (NYC Open Data)

Idea: Find out the health violations/inspection status of your favorite restaurants!

- Restaurant Search
- Display restaurant inspection results
- Can use Google Maps to pinpoint location of restaurants as well (using Google API).
- Users can save/favorite certain restaurants so they can easily see the information in another page

Components:

- Flask app
  - **__init__.py** - serves HTML pages with stored user information
- HTML
  - **login.html** - landing page with login form and registration form
  - **home.html** - where users can search for a restaurant and view the list of results, along with a map presenting the locations of the results
    - search bar
    - results will be shown in the form of cards
    - each of the restaurants returned as a result will include the name, address, rating, a favorite/unfavorite button, and a button to see reviews.
    - clicking on one restaurant will replace the results with more specific information about that restaurant
    - “go back to results” button that’ll take you back to the results after viewing one restaurant
    - button that takes you to favorites page
  - **saved.html** - users can view their saved restaurants and view each of the restaurant’s inspection details

- users can click the star next to the restaurant name to remove it from their saved restaurants.
- button to go back to home page

- CSS
    - **style.css** - includes all the stylistic elements to the front-end using Bootstrap
- JavaScript
    - **script.js** - adds all necessary dynamic functionality to served Flask app
        - managing buttons and display results
        - stretch goal: icons that show the ratings (A,B,C,D,F) of restaurants on Google Maps
- API keys
    - **key_api** - each of the API keys
- Backend
    - SQLite population of database with restaurant information, including restaurant information and their inspection results
    - SQLite population of database with user information, including their saved restaurants
    - Python files dealing with API handling and database parsing

Database Organization:

- 1 table with user information
    - **users.db:** stretch goal
      user id | username | password | list of saved restaurants
- 1 table with restaurant information
    - **restaurant.db:**
      CAMI (unique restaurant ID) | DBA | borough | building | street | zip code | cuisine description | inspection date | violation code | score | grade

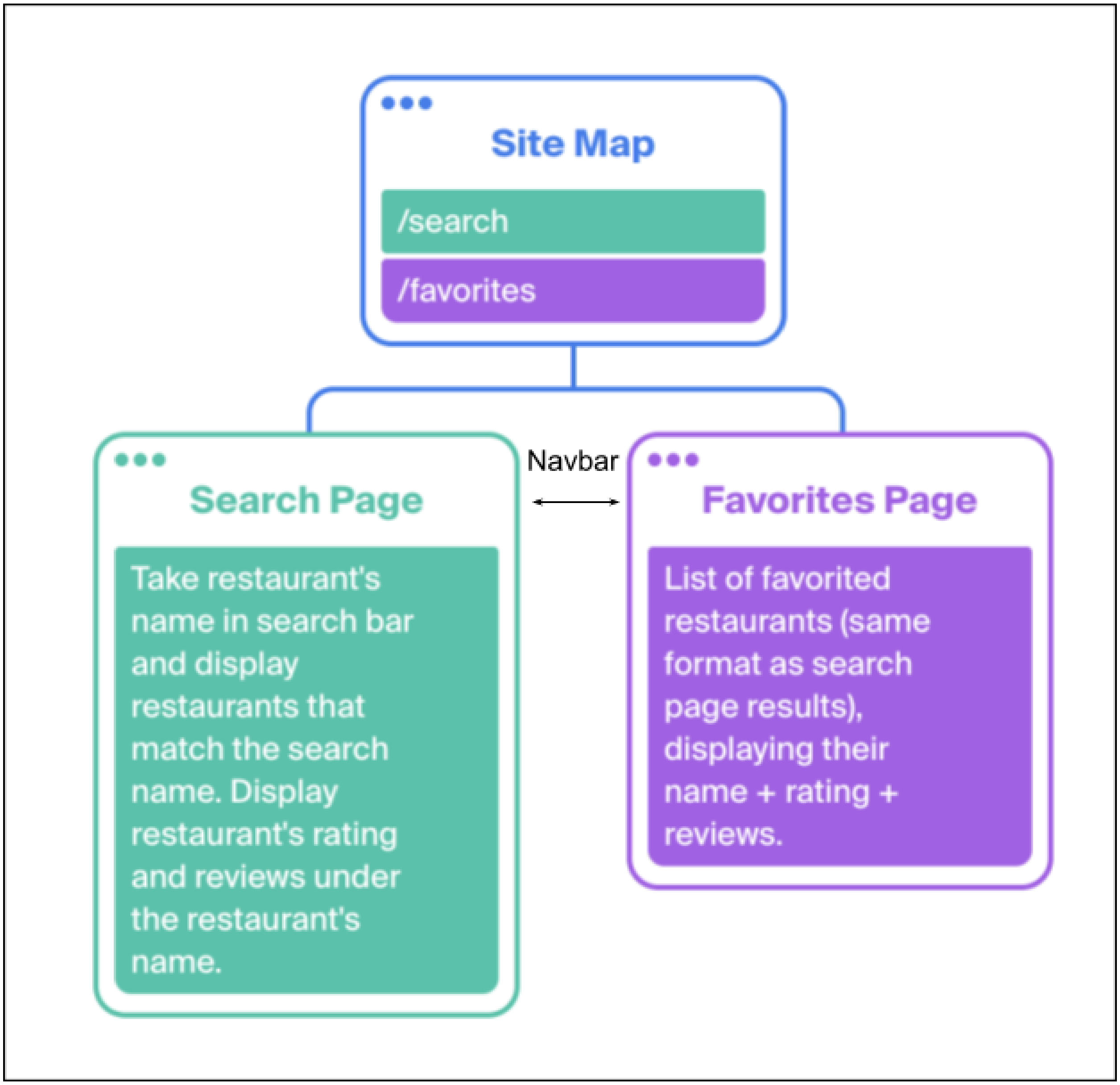
API:

- Google Maps API:
    - Markers, Custom markers
    - Controls (center, zoom)
    - Simple click events (select)

Front End Framework:

- Bootstrap:
    - preferred aesthetic
    - has prebuilt elements such as cards (necessary for displaying our results)
    - pre-styled forms for filtering and search bar

Site Map

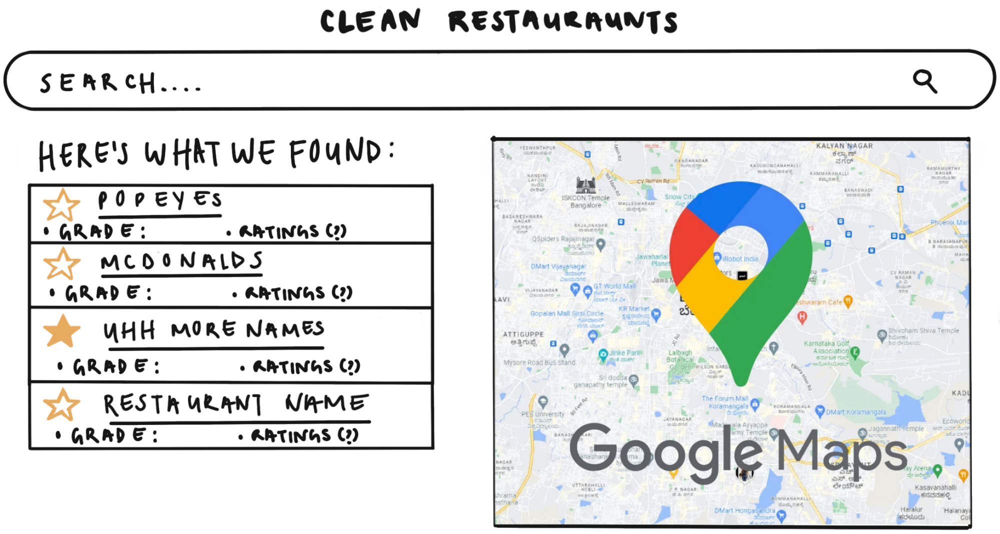


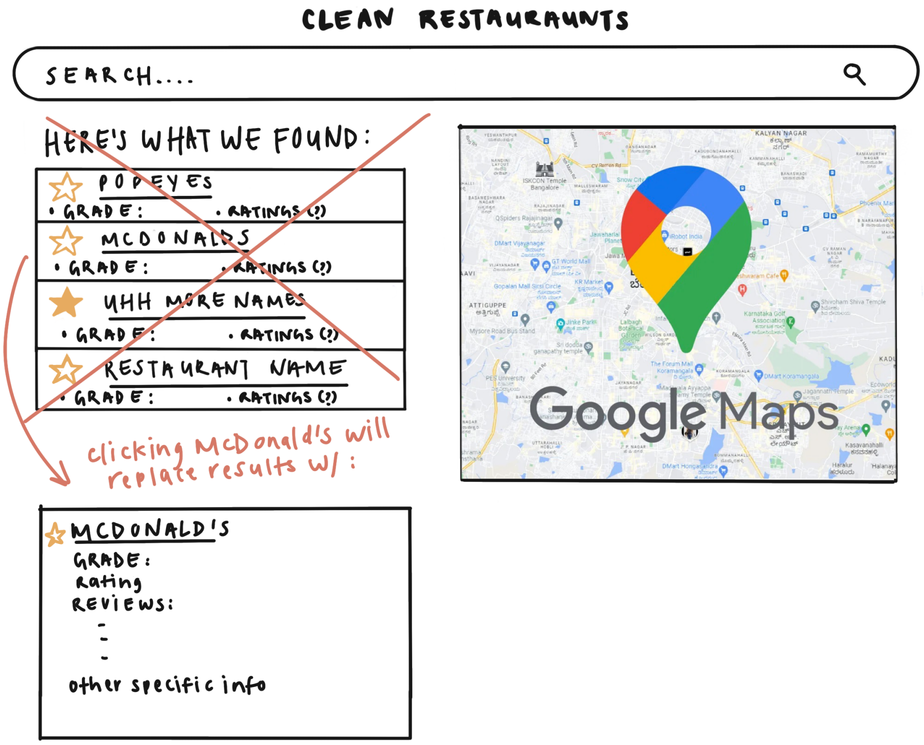
Take restaurant's name in search bar and display restaurants that match the search name. Display restaurant's rating and reviews under the restaurant's name.

List of favorited restaurants (same format as search page results), displaying their name + rating + reviews.

Mockups:

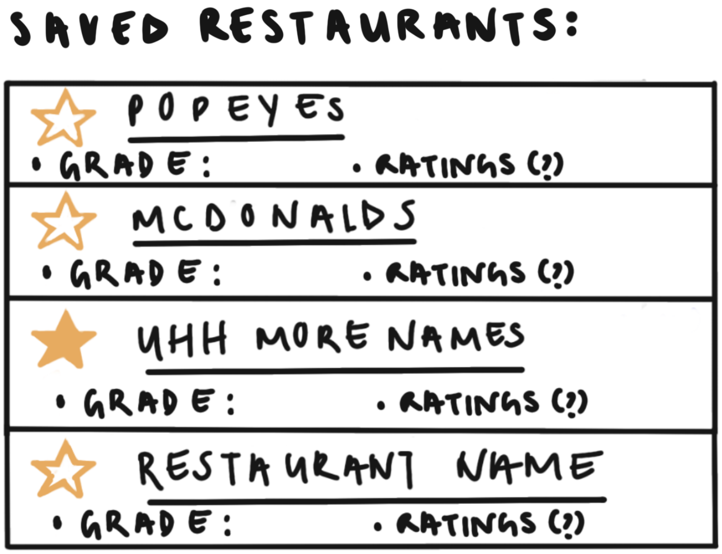
Search Page:





clicking McDonald's will replace results w/ :

Favorites Page:



Priority List

High

1. Parse dataset and populate database with necessary info
2. Search for restaurant based off database
3. Google Map Integration

Medium

- Filtering restaurants (for example by ratings)

Low

- User login