DineDash

Project Summary

Our project is to create a website, DineDash, to find a restaurant that matches your specific needs such as specific dietary restrictions, food preferences, pricing, etc. Deciding on a restaurant that meets the desired combinations can be a very difficult task so we wanted to create DineDash to solve this problem.

Usefulness

Our proposed application is similar to yelp and uber however, we plan to add feature(s) not available in either application. Some users may have dietary restrictions so they have the ability to filter restaurants by ingredients to make sure the restaurant of their choice is safe. Similar to Uber Eats, restaurants can be chosen by category, price, distance and our search and filter functions will apply the same features with added specifications.

Additionally, we will add the ability for users to create a cost estimation for the items they wish to order from a selected restaurant.

Similar to going on yelp to find a place to eat based on preference

- Allergy filtration sets it apart
- Creative Component/ Challenge part:
  - When picking a restaurant they can add what they wish to order to a ‘cart’ and we estimate the cost based on what they want to order

Realness

Source: https://www.kaggle.com/datasets/ahmedshahriarsakib/uber-eats-usa-restaurants-menus

This dataset contains 2 csv files:

1. Restaurants - id, name, score, ratings, category, price_range, address
2. Restaurant Menu - restaurant_id, category, menu_item name, description, price

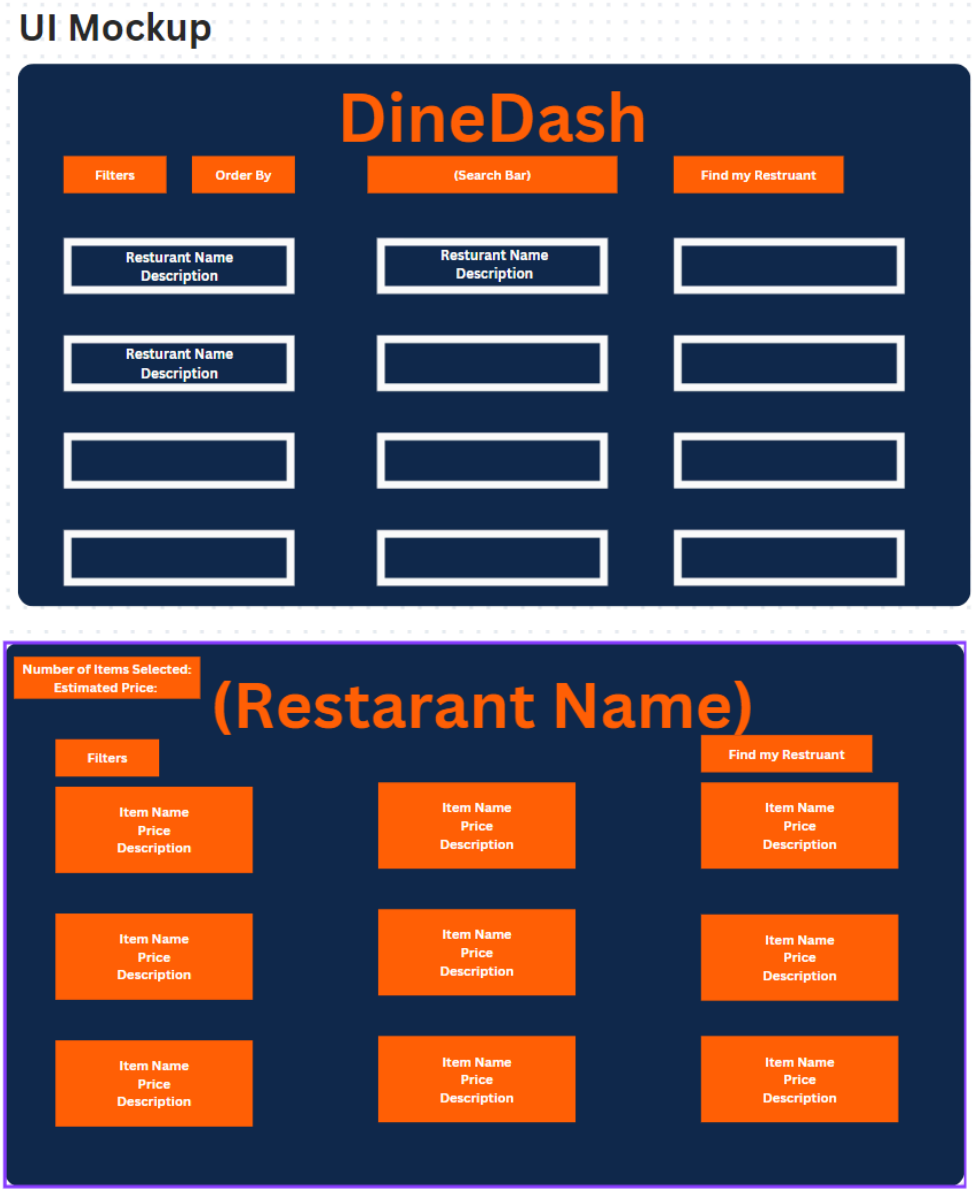
We will extract data from these tables and place them in separate tables like score and ratings, addresses and more.

Dataset size from the original file is 1048576 rows.

Functionality Description

Users on the application can search for certain restaurants and receive a list of the restaurants fitting their criteria. They will have the ability to filter out restaurants based on price, distance, allergens, cuisine type, ratings, etc. We can allow multiple filters to be added and deleted to the search and the button “Find my Restaurant” can allow the user to update restaurants if they change their filter preferences. We can utilize React Select feature to allow multiple variations to be selected by the user allowing preferences to be unique. Additionally, we can implement an “Order By” drop down that will order the restaurants chosen based on location, price rating or relevance/none. The search bar can be used to directly find a restaurant that matches the keyword they typed.

Users will have the ability to select a restaurant they choose and be shown the multiple items, price and description of items in the restaurant. Users will be able to add the item of their choice to a list which will output a total price of their order if they decide to purchase the item(s).



Work Distribution

The work will be distributed primarily based on each member's experience and their availability to take on a larger workload. We plan on utilizing branches to work on our separate parts for testing and organization. Currently our breakdown is based on experience and will further be split more narrowly when we begin designing the project further.

Some of the tasks we have broadly distributed include Ashley working on the frontend UI design of our web application and Lindsey working on the SQL query design and creating

queries that would interact with the database/website when we apply filters etc. Manas and Deepika will help within those two tasks too.