

INST 327-WB21: DATABASE DESIGN & MODELING

Team Project Proposal

July 27, 2022

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Introduction:

As a team, we have decided to create a database that will contain all obtainable information related to the restaurants and fast food chains in College Park, MD which will be easily accessible for students, staff, and anyone who lives in College Park, MD area. The main mission of this database is to concentrate all available information about food and drink establishments in the College Park area. The results of creating a database containing specific data will result in students, staff, and residents having an easier time deciding what they would like to eat or finding a new cuisine to try out.

The database will contain data that is achieved through the data of the mobile business application, Yelp. Yelp is an application that allows consumers to gain information, such as location, cuisine, opening/closing hours, and pictures that consumers post on the application. We will take the information that Yelp provides and categorize them based on location. Although our team gains information from Yelp, we will be creating our categorization and organization system.

Our data will consist of seven tables containing information, such as “Restuarant_ID”, “restuarant_name”, “food_type”, “delivery_option”, “location_id”, and many more. These elements will allow the targeted audience to filter what is not wanted in their specified search. The categories of data that are included will be “contact”, “restaurants”, “customers”, “employees”, “menu”, and “location”. We have decided these will be the tables we will be working with. Our tables will contain the most updated information as of July 28th, 2022.

Target Audience:

Our database is created to be easily accessible to students, staff, and those who are seeking information about the food businesses around them, either for consumption purposes or for discovering new types of cuisines around College Park, MD. Students, staff, and those who live around the area will be able to utilize the information given to them. Students may use this database to find restaurants/fast-food chains to find a meal that matches what the student is looking for, either the price or types of cuisine. The staff may also use this database as how the

students will be utilizing the database. Other than finding cuisine, students and staff may be able to use our database to find a great meeting spot or a cafe that provides free wifi.

Sample data:

Since our database will be storing information about real businesses/ restaurants, the majority of information is available online. To begin we may select a few popular restaurants from our personal experiences or a business review site such as Yelp (https://www.yelp.com/search?find_desc=Restaurants&find_loc=College+Park%2C+MD). Once the list of sample restaurants has been determined, information such as restaurant_name, delivery_option, location_description, food_price, and others can be found on the company's website. For example, a popular restaurant in College Park may be Chipotle. Information for this specific store can be found at <https://locations.chipotle.com/md/college-park/7332-baltimore-ave?restaurant=105>. Some information in our database will need to be created, however. Information about hiring, for example, would not be readily available on the internet, nor would employers likely divulge this information.

Other possible restaurants include:

Panda Express

<https://www.pandaexpress.com/locations/md/college-park/7316-baltimore-ave>

The Cornerstone Grill & Loft

<https://www.cpcornerstone.com>

PotBelly

<https://www.potbelly.com/locations/maryland/college-park-u-md>

Potential entities/tables with potential attributes/columns:

Restaurants

restaurant_id	Restaurant_name	food_type	price_rating	delivery_option	delivery_type	location_id
1	Chipotle	Mexican	2/5	3	Mobile Ordering	1

Cuisine

food_name	food_type	food_price
Mapo tofu	Vegan	\$15.89

Contact

restaurant_name	restaurant_id	phone_number	email_address	website_url
Chipotle	1	410-897-1925	support@chipotle.com	https://locations.chipotle.com/md/college-park/7332-baltimore-ave?restaurant=105

Location

location_id	location_description	property_type
1	7332 Baltimore Ave College Park, MD 20740	Commercial

Customers

customer_id	customer_rating	customer_fname	customer_lname
1	5 star	John	Doe

Menu

restaurant_id	food_menu_name
1	Chipotle - Lunch Menu

Hiring

position_id	restaurant_id	position_title	position_description	salary
1	1	manager	Service Manager, responsible for maintaining a positive customer experience by ensuring that safe, quality food is prepared and served; and that the restaurant crew is well trained and provides excellent	\$80,673

			service. You'll maintain a clean, organized line with properly functioning line equipment.	
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Entities/tables you will not include in the database:

Based on our target audience of students and staff of UMD, the excluded information that would be excluded will be:

- A table including other cities other than College Park. Including other cities will enlarge our scope to where it will surpass the requirements of this project.
- A table that includes information whether or not there is a kid menu. We will exclude this due to the growing scope of this project.
- A table that includes information on whether the restaurant uses organic ingredients.

Questions that the database will be able to answer:

1. Who has placed an order with a specific restaurant?
2. What are my cuisine options near college park?
3. How many restaurants match my desired cuisine?
4. Where is a specified restaurant located?
5. How can I contact a specified restaurant?
6. What food items are on a specified restaurants menu?
7. What are the ratings for these restaurants?
8. How can I order from a restaurant?
9. How much does the food cost by restaurant?
10. What restaurants are hiring?

Diversity, Equity, and Inclusion Considerations:

The current framework posed in our sample data plan was designed to be as inclusive as possible. Considerations were made into the different types of restaurants including the types of cuisines served, however, DEI requirements extend beyond the scope of the restaurants and extensive thought should be made into the consumer base. Not all customers are able bodied or will be able to come and sit down and enjoy a meal at the restaurants showcased, this is a situation faced by customers with accessibility issues when considering places to eat. We should also plan to highlight options that promote accessibility to mobility and sensory challenged patrons.

Data Privacy, Fair Use, Other Ethical Considerations:

We potentially have some ethical considerations to consider in the development of our database. Considering the scope of our database being a restaurant, there's no real reason for us to maintain a table for our customers. Especially considering we are serving as a restaurant board in a sense where we are compiling a list of restaurants in the College Park area. The only time where this could be acceptable is if customers elected to have their names stored as sort of a "Yelp" review of their favorite restaurants, or if this was just one restaurant and the customer names were restaurant reservations for a specific period of time. Continuing with this issue, having a table which stores information about the employees of the restaurant also poses a risk considering the scope of our purpose and reasoning behind creating this database, an acceptable alternative would be to just list the owners or investors in the restaurant, have the table reflect applicants/candidates available for hire to these restaurants, or change the to something else such as food critics or suppliers.