Phase 1

1. **Project Details**
    1) Project Name: DFW Food Fiends
    2) Team Name: Second is the Best
    3) Team Members:
        i. David Tepeneu (dxt200015)
        ii. Harper Wood (hfw210000)
        iii. Kacie Yee (kky210001)
        iv. Nadeeba Atiqui (nxa210083)
        v. Viet Vu (vqv200000)

2. **Problem Statement**
    1) Problem: Dallas is a fast-growing city with an expansive, diverse culinary scene. In 2019, it was even named Restaurant City of the Year by popular food magazine *Bon Appétit* [1]. However, there is currently no dedicated space for students at the University of Texas at Dallas to share their favorite local restaurants with their peers. The university community lacks a platform for fast food and fine dining enthusiasts alike to discuss the Dallas culinary scene.
    2) Solution: Our team plans to create a blog style site that will communicate with our database to display UTD students' favorite restaurants, menu items, and more. The database system will solve the issue by acting as an organized, centralized storage space for the local restaurant data students wish to share. Users will utilize a form to add information about their favorite restaurants, and this data will then be displayed on the site. Users can also search for the most popular places within the site and this data will be retrieved from our database. Our site aims to bring UTD students together with good food and good conversation.
    3) Why not Excel: Excel would not be suitable for our project design for multiple reasons. First, the restaurant data we aim to store has a complex structure which may need to change over time to fit the users' wants and needs. While this may be possible to some extent with Excel, it would quickly become cumbersome to lay out the structure and make changes. A database system better facilitates our implementation and maintenance needs. Additionally, our data needs to be shared amongst many users for our application to solve

the problem at hand. A database system will provide centralized control over the data, keeping it consistent and allowing it to be easily shared.

3. Target User

1) All users (in our problem statement it was specific to UTD students) will be able to access the database through the web application.
2) Our 5 team members will be managing the database for any and all reasons.
3) Eventually this could be handed off to UTD as a subdomain of utdallas.edu to further our real-word example.

4. List of Relations

1) Users table (us for now): Username, first name, last name, DOB, classification (1st year, 2nd year, etc), major, profile picture

Username	First name	Last name	DOB	Classific-ation	Major	Profile picture (link)
Char(20), not null	Char(20), not null	Char(20), not null	Date, not null	Enum	Char(40)	Char(200)

2) Reviews table: Review ID, username, rating out of 5, restaurant name, comments

Review ID	username	Rating	Restaurant	Comments
Char (6), not null	Char(20), not null	Integer, between 1 and 5, not null	Char(30), not null	Char(500)

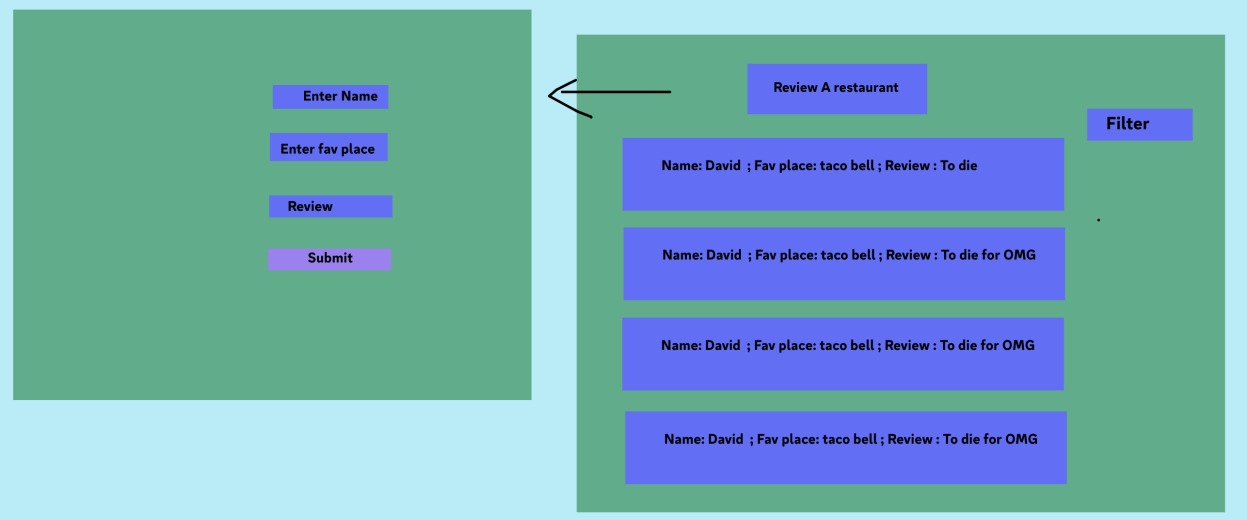
3) Restaurants table: Restaurant name, average rating, address, distance from campus, cuisine (fast food, Chinese, Italian, etc)

Restaurant Name	Avg Rating	Address	Distance from campus (miles)	Cuisine
Char (30), not null	Float, not null	Char (100)	Float	Char(20)

4) Item table: Food item name, comments, restaurant name, photo

Food item name	Comments	Restaurant name	Photo (link)
Char(30), not null	Char (500)	Char (30), not null	Char (200)

5. **Web Interface**
    - Form: Users input reviews (restaurant name, rating, comments, favorite items)
        - This data will be added to the database when the user submits the form
    - Main Feed: Contains all the restaurants posted/recommended by other users
        - This page will query the database to get the data to display
        - Filter for looking up a specific restaurant by name, popularity, best ratings, etc.



6. **Data**
    - We will be creating our own data to input into the database.
    - We will be acting as users and leaving reviews of our favorite restaurants.

References

[1] D. Magazine, “Dallas Named Restaurant City of the Year by Bon Appétit,” *D Magazine*, Sep. 12, 2019. https://www.dmagazine.com/food-drink/2019/09/dallas-named-restaurant-city-of-the-year-by-bon-appetit/ (accessed Sep. 06, 2024).