

CPSC 304 Project Cover Page

Milestone #: 1

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Group Number: 55

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

Project Proposal – Group 55

1. Project Description:

The domain of this application is a restaurant rating app focused on customer engagement. The primary goal of the application is to create a platform that allows users to interact with restaurants by sharing their dining experiences through reviews and ratings. Users can rate restaurants and individual dishes, post photos and text about their experiences, and manage personal favorite lists. On the restaurant side, the app helps manage employee roles, promotions, and dish information. Additionally, restaurants' owner can post promotions that users can take advantage of, further enhancing customer engagement.

The database models several critical aspects of the restaurant industry to address both customer and restaurant needs:

User Interaction: Users can create posts with text, ratings, and photos about restaurants and dishes they have tried. These posts serve as a review mechanism, allowing other customers to learn more about the restaurant's quality. Users can also create and maintain Favorite Lists of their preferred restaurants, offering a personalized experience within the system. Promotions offered by restaurants' owner are tracked and available for users to redeem for discounts.

Restaurant Operations: Each Restaurant has a defined set of attributes, including its ID, name, photo, and rating. Restaurants also offer various Dishes, each with specific attributes like name, price, and photo. Restaurants are managed by Owners, and each restaurant has a number of employees. Employees are categorized into roles such as Waiters and Chefs, capturing specific details like the languages waiters speak and the styles of cuisine that chefs specialize in. Promotions are linked to restaurants' owner and can offer users discounts on dishes or meals.

Application In Real-life: In real life, this application could be used in any setting where customers frequently review restaurants and dishes helping them choose the right restaurants, such as Yelp or TripAdvisor. It enables users to have a comprehensive understanding of a restaurant before visiting, while also allowing restaurant owners to manage their business more efficiently by promoting specific dishes and managing staff responsibilities.

2. Database specifications: (3 - 5 sentences)

The database for our restaurant rating app enables users to post reviews, rate restaurants and dishes, and manage favorite lists. It also allows restaurants' owner to update dish details, manage employee roles, and post promotions for customer engagement. Restaurant owners can publish discounts, view employee details such as languages spoken, and track staff roles like waiters and

chefs. This system provides a comprehensive platform for user interaction and streamlined management of restaurant operations.

3. Description of the application platform: (2 - 3 sentences)

We will use the department-provided Oracle database system to implement our project. For the application technology stack, we plan to use PHP for the back-end to interact with the database. The front-end will be built using JavaScript to create an interactive user interface.

4. ER Diagram

