



College of Informatics and Computing  
Sciences IT 211 - Database Management  
System

Project Title:

**Mellow the Café**

Submitted by

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### ***Short Background Problem & Impact:***

#### **Background:**

The coffee shop application aims to provide users with a convenient platform to explore a variety of coffees, place orders, and share their experiences through reviews. Users can register, view the coffee menu, place orders, and submit reviews. The system tracks order details, user information, and coffee reviews to enhance the overall customer experience.

#### **Problem:**

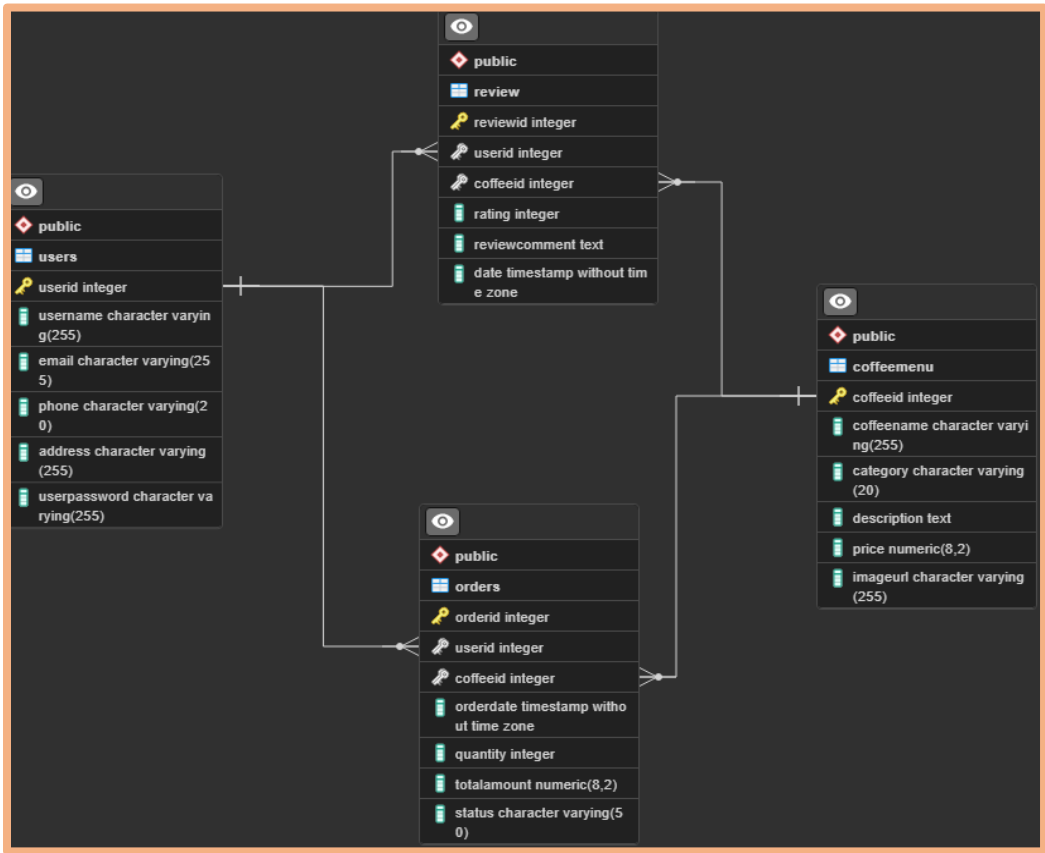
However, users have been experiencing delays in order processing and inconsistencies in the displayed coffee menu. Additionally, there are concerns about potential security vulnerabilities in the user registration process. The absence of a real-time order tracking feature and limited responsiveness in handling user reviews has led to a less-than-optimal user experience.

#### **Impact:**

This has resulted in frustrated users, potential loss of business, and a negative impact on the reputation of the coffee shop. Delays in order processing may lead to customer dissatisfaction and a decrease in user engagement. The security concerns pose a risk to user data integrity. To maintain and improve customer satisfaction, it is crucial to address these issues promptly and implement enhancements to streamline the order process, ensure data security, and improve overall application performance.



Database Schema:



Mellow the Café App Schema

Relationships between these tables:

User Table:

Columns:

UserID (Primary Key), Name, Email, Phone, Address, Password

Relationships:

The UserID serves as the primary key for the "User" table. Other tables, such as "Order" and "Review," reference this key as a foreign key (UserID) to establish relationships. This enables the linking of orders and reviews to specific users.

Order Table:

Columns:

OrderID (Primary Key), UserID (Foreign Key), CoffeeID (Foreign Key), OrderDate, Quantity, TotalAmount, Status

Relationships:

The UserID and CoffeeID columns in the "Order" table are foreign keys that reference the primary keys (UserID and CoffeeID, respectively) in the "User" and "CoffeeMenu" tables. These relationships connect each order to a specific user and a specific coffee item.





CoffeeMenu Table:

**Columns:**  
CoffeeID (Primary Key), CoffeeName, Category, Description, Price, ImageURL

**Relationships:**  
The CoffeeID serves as the primary key for the "CoffeeMenu" table. This key is referenced as a foreign key (CoffeeID) in the "Order" and "Review" tables. This relationship allows orders and reviews to be associated with specific coffee items.

Review Table:

**Columns:**  
ReviewID (Primary Key), UserID (Foreign Key), CoffeeID (Foreign Key), Rating, Comment, Date

**Relationships:**  
Similar to the "Order" table, the UserID and CoffeeID columns in the "Review" table are foreign keys that reference the primary keys in the "User" and "CoffeeMenu" tables, respectively. This establishes relationships between reviews, users, and coffee items.

