

## **Project Title: Restaurant Management System**

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### Overview of application:

Our Restaurant Management System is designed to streamline the process of managing a restaurant, making it more efficient and user-friendly. The system will allow users to manage reservations, menus, orders, and billing in one central location. The system will also provide data analytics to restaurant managers, helping them make informed business decisions.

### Users:

Restaurant Manager - This user class will have access to all features of the system, including managing tables, menus, orders, and billing. They will also have access to data analytics to make informed business decisions.

Wait & Cashier Staff - This user class will be able to manage reservations, take orders, and process billing.

Kitchen Staff - This user class will be able to view orders and mark them as complete.

Customers - This user class will be able to view the menu, make reservations, and place orders.

### Data to be stored:

Table - Table No. , Unique Identifier, Location, Seating Capacity

Menu Item - Name, Description, Price, Ingredients

Order - Table Number, Menu Items, Special Requests, Total Price

Reservation - Date, Time, Table Number, Customer Information

Billing - Order Information, Tax, Total Price

Customers - Name , Place , Address

Waiters - ID , Name

Chefs - ID , Name

Cashiers - ID, Name

### Application structure:

Backend: The main API functionality includes:

Managing Tables - Create, Update, and Delete tables, menu items, orders, bills, reservations

Handling different queries on the tables

UI: We plan to support a web-based UI using React for the frontend and Node.js for the backend.

### Key User Interfaces:

Login Page

Dashboard for Restaurant Manager

Table Management Page

Menu Management Page

Order Management Page

Reservation Management Page

Billing Management Page

Menu View Page for Customers

Reservation Page for Customers

Order Page for Customers

Other Aspects: We plan to generate test data to simulate the use of the system.

