

LAB-4

Problem Statement:

To design a comprehensive hotel management system that efficiently manages the operations of a restaurant within a hotel, including the management of employees, customers, tables, menu items, orders, billing and payment process.

Scope:

- Handling employee records, including servers and chefs.
- Managing customer details and their interactions.
- Managing menu items, availability, and pricing.
- Processing orders from customers.
- Calculating bills based on orders placed.

Requirements

Functional Requirements

1. Employee Management
 - Add, update, and view employee details
 - Distinguish between chefs/servers
2. Customer Management
 - Set customer information
 - Place and track orders
3. Table Management
 - Manage table details (number, occupancy, server)
4. Menu Management
 - Display available menu items with pricing
5. Order Management
 - Allow customers to place and track orders
6. Billing
 - Calculate and generate bills

Non-Functional Requirements

1. Performance
 - Support multiple users without delays
2. Usability
 - Interface should be easy to use for both customers and employees

3. Scalability

- System should accommodate additional features, such as reservations or promotions, in the future

4. Security

- Sensitive info must be securely stored

UML Class Diagram:

