Restaurant Management System

Project Overview and Purpose:

Build a restaurant application to streamline food ordering operations, including table reservations, order management.

Functional Requirements:

1. User Registration and Login

1.1 The system must support registration and login for different user roles: admin and staff.
1.2 Admins and staff must have appropriate access levels to functionalities based on their roles.
1.3 The system must provide a mean to manage users. (add update delete)

2. Table Reservation

2.1 Restaurant administration can reserve manage tables.
2.2 The system must manage table availability and prevent double bookings.
2.3 Reservations should include customer details, date, time, and table preferences.
2.4 Restaurant administration can manage reservations (add , cancel, update)

3. Order Management

3.1 Staff can take customer orders digitally.
3.2 staff can view orders through an interactive display.
3.3 The system must track order statuses (e.g., pending, in progress, completed).

4. Menu Management

4.1 Admins can add, edit, or delete menu items.
4.2 Admins can add, edit, or delete food categories
4.3 Menu details should include item name, description, price, and availability status.

Important Notes:

- ✓ Every group has to present their work in the end of the semester (last session).
- ✓ Every student has to use GitLab (or similar) to push his work continuously as weeks progress.
- ✓ Student is responsible for his features (Controllers, and GUI, UI/UX).
- ✓ Every student to plan his features delivery combine all in one time plan delivered according to the time plan.
- ✓ Group to provide a class EML diagram of their project.
- ✓ Application has to take care on design patterns.