

OBJECTIVES

The **Online Food Delivery Project** is designed with the following key objectives to enhance the user experience, security, and functionality of the platform:

1. **Develop a User-Friendly Online Food Ordering Platform** ◦ Ensure an intuitive and seamless interface for customers and restaurant owners. ◦ Simplify the ordering process with clear navigation, categorized menus, and order tracking. ◦ Provide a hassle-free experience for users across different devices and screen sizes.
2. **Implement a Secure Authentication System Using JWT and Spring Security** ◦
 - Utilize **JSON Web Tokens (JWT)** for secure and efficient user authentication.
 - Integrate **Spring Security** to enforce authentication and authorization protocols
 - Prevent unauthorized access and protect sensitive user data.
3. **Enforce Role-Based Access Control (RBAC) with Defined User Roles**
 - Implement distinct user roles:
 - ▢ **ROLE_CUSTOMER** – Allows users to browse menus, place orders, and track order status.
 - ▢ **ROLE_RESTAURANT_OWNER** – Enables restaurant owners to manage their menu, process orders, and handle customer interactions.
 - Restrict access to certain functionalities based on assigned roles to ensure security and proper functionality.

4. **Integrate Secure Payment Processing Using Stripe Payment Gateway**

- Implement **Stripe Payment Gateway** to handle transactions securely and efficiently.
- Support multiple payment methods, including credit/debit cards, UPI, and digital wallets.
- Ensure encrypted payment processing to protect user financial information.

5. **Ensure Efficient State Management Using Redux**

- Utilize **Redux** for centralized state management to handle complex application states.
- Improve performance and maintainability by managing user authentication, cart items, and order history efficiently.
- Facilitate seamless data flow between components for a smooth user experience.

6. Create a Visually Appealing and Responsive UI/UX Using Tailwind CSS and

- Material-UI (MUI)**
- Leverage **Tailwind CSS** for utility-first styling and rapid UI development.
 - Use **Material-UI (MUI)** components to enhance design consistency and improve user interaction.
 - Ensure full responsiveness across desktops, tablets, and mobile devices for an optimal browsing experience.