**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

| Date | 12 April 2025 |
| --- | --- |
| Team ID | SWTID1743516636 |
| Project Name | SB Food Ordering App |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| --- | --- | --- |
| 1 | User Registration | Registration via Email |
| 2 | User Authentication | Email/Password Login  JWT Token Authentication  Password Reset |
| 3 | Menu Management | Menu Management - Food Item Creation (Admin/Restaurant)  Order Placement (Customer)  Order Status Tracking (Customer)  Interactive Rating & Review System |
| 4 | Payment Integration | Stripe Payment Gateway for Course Purchases  Payment History Tracking  Refund Process |
| 5 | order confirmation. | Invoices - Generate PDF Invoice upon Order Completion  Automatic Invoice Trigger on Successful Payment |
| 6 | Customer Support | Order-Specific Help & Discussion Threads  Real-time Chat between Customers and Delivery Partners/Support |
| 7 | Admin Dashboard | User Role Management (Admin, Restaurant, Customer)  Menu & Order Moderation Tools  System Health & Order Flow Monitoring |
| 8 | Analytics & Reporting | Customer Order Behavior Insights  Revenue Reports for Restaurants/Admin  Food Item Popularity Metrics |
| 9 | Content Management | Upload Food Images, Descriptions, and Prices  Drag-and-Drop Menu Builder for Restaurants/Admin |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

| **FR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-1 | **Usability** | * Intuitive UI for all user roles (Admin, Restaurants, Customers) * Responsive Design for Seamless Mobile and Desktop Experience |
| NFR-2 | **Security** | SSL encryption for secure communication  JWT for secure authentication  Payment data encryption (Stripe API) |
| NFR-3 | **Reliability** | * Ensure No Data Loss During Order Placement and Payment Processing * High Availability for Real-Time Features (Order Tracking, Live Chat Support) |
| NFR-4 | **Performance** | fast Page Load Times, Optimized for High Traffic |
| NFR-5 | **Availability** | 99.9% uptime, minimal downtime during maintenance |
| NFR-6 | **Scalability** | Ensure Adherence to Data Protection Laws (e.g., GDPR, CCPA)  Secure Payment Processing and Protection of Customer and Restaurant Data |