**Project Design Phase-II**

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

| Date | 31 January 2025 |
| --- | --- |
| Team ID | LTVIP2025TMID55575 |
| Project Name | SHOPSMART-DIGITAL GROCERY STORE EXPERIENCE |
| 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)** |
| --- | --- | --- |
| FR-1 | User Registration | Registration through Form  Registration through Gmail  Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | Product Browsing and Search | Search bar for products  Category-wise filtering ( e.g., Fruits, Vegetables, Snacks )  Product details page |
| FR-4 | Cart Management | Add to Cart  Remove from Cart  Update quantity in cart  View cart summary |
| FR-5 | Order Placement | Checkout process  Address and delivery information  Payment gateway integration. ( UPI, Card, COD ) |
| FR-6 | Order Tracking | Track orders status ( Ordered -> Packed -> Out for Delivery -> Delivered) |
| FR-7 | Admin Panel | Add/Edit/Delete products  View orders  Manage user accounts |
| FR-8 | Feedback System | Users can rate and review products  Admin can moderate reviews |
| FR-9 | Offers and Coupons | Apply promo codes at checkout  Display active deals and discounts |

**Non-functional Requirements:**

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

| **FR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-1 | **Usability** | User-friendly interface for all age groups, intuitive navigation, and responsive design. |
| NFR-2 | **Security** | Secure login with encryption, secure payments, and data protection practices. |
| NFR-3 | **Reliability** | System should handle load gracefully and show accurate product and order data. |
| NFR-4 | **Performance** | Fast loading of pages and quick response time for cart and search features. |
| NFR-5 | **Availability** | 24/7 uptime with minimal downtime, especially during peak hours. |
| NFR-6 | **Scalability** | Easily extendable to support more users, new features, and higher product volumes. |