**Project Design Phase-II**

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

| Date | 26-06-2025 |
| --- | --- |
| Team ID | LTVIP2025TMID59448 |
| Project Name | ShopSmart |
| 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 Authentication | Register, Login, Password Reset, Login via Google/Facebook |
| FR-2 | Product Browsing &Search | Browse categories, Search products, Filter by price, brand, and availability |
| FR-3 | Cart & Checkout | Add/remove items to cart, Update quantity, Apply promo codes, Checkout with address/payment |
| FR-4 | Order Management | View order history, Track orders, Cancel/refund requests |
| FR-5 | Notification & promotion | Email/SMS alerts for order status, promotional offers, stock updates |
| FR-6 | Reviews & Rating | Add product reviews, View ratings and comments |

**Non-functional Requirements:**

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

| **FR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-1 | **Usability** | Simple, mobile-friendly UI/UX for shoppers of all age groups |
| NFR-2 | **Security** | Secure user authentication, encrypted transactions, PCI-compliant payment processing |
| NFR-3 | **Reliability** | Core features like cart, checkout, and orders should work consistently without errors |
| NFR-4 | **Performance** | Product searches and page loads must be under 2 seconds; checkout process should be responsive |
| NFR-5 | **Availability** | Ensure 99.9% uptime, especially during peak hours and seasonal sales |
| NFR-6 | **Scalability** | Capable of handling increased users, transactions, and inventory without performance loss |