**Project Design Phase-II**

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

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| --- | --- |
| Date | 26-06-2025 |
| Team ID | LTVIP2025TMID59506 |
| Project Name | ShopEZ:One-Stop Shop for Online Purchases |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

**Functional Requirements – ShopEZ Platform (e-commerce)**

| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| --- | --- | --- |
| FR-1 | User Authentication | Sign up, login, logout, and password reset |
|  |  | OAuth login using Google (optional) |
| FR-2 | Product Listing & Management | Sellers can add, edit, and delete product listings |
| FR-3 | Product Discovery | Customers can search, filter, and view product details |
| FR-4 | Cart & Checkout | Customers can add items to cart, update quantity, and place orders |
| FR-5 | Payment Integration | Secure online payment via Stripe or Razorpay |
| FR-6 | Order Management | Sellers can view, confirm, and update order status |
| FR-7 | Reviews & Ratings | Customers can rate and review products after purchase |
| FR-8 | Admin Moderation | Admin can approve/reject seller accounts and manage user access |
| FR-9 | Notifications | Email/SMS notifications for order status and confirmations |

**Non-functional Requirements:**

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

| **NFR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-1 | Usability | Simple, responsive, and intuitive UI/UX for both sellers and buyers |
| NFR-2 | Security | Role-based access control, password encryption, and secure payment integration |
| NFR-3 | Reliability | Order processing, payment, and notifications must work consistently |
| NFR-4 | Performance | Pages should load within 2 seconds; checkout and payment under 5 seconds |
| NFR-5 | Availability | 99.9% uptime with automatic failover and minimal downtime |
| NFR-6 | Scalability | Capable of supporting thousands of users, sellers, and concurrent transactions |