**Project Design Phase-II**

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

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| --- | --- |
| Date | 26-05-2025 |
| Team ID | LTVIP2025TMID53102 |
| 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**

| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| --- | --- | --- |
| FR-1 | **User Authentication** | Sign up, Login, Password ResetOAuth login using Google / GitHub |
| FR-2 | **Product Browsing & Ordering** | Browse by category, search by keywordsFilter and sort productsAdd to cart, place order |
| FR-3 | **Seller Product Management** | Sellers can upload product detailsEdit inventory and pricingView and manage orders |
| FR-4 | **Order Tracking & Notifications** | Users can track order statusReceive SMS/email alerts at every stage |
| FR-5 | **Admin Moderation** | Admin can verify sellers, manage disputes, and approve listings |

**Non-functional Requirements:**

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

| **NFR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-1 | **Usability** | The platform should offer a clean, intuitive UI for users of all ages. |
| NFR-2 | **Security** | All data transfers must be encrypted. Implement role-based access and JWT token authentication. |
| NFR-3 | **Performance** | Pages should load within 2 seconds. Checkout and cart operations should be smooth. |
| NFR-4 | **Availability** | The system should maintain 99.9% uptime across all services. |
| NFR-5 | **Scalability** | Should support growing traffic and features using modular/microservice-based architecture. |