**Project Design Phase-II**

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

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| --- | --- |
| Date | 26 June 2025 |
| Team ID | LTVIP2025TMID59619 |
| 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**

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| **FR-1** | User Authentication | Sign up, Login, Password Reset   |  | | --- | |  | |
|  |  | |  | | --- | |  |  |  | | --- | | OAuth login using Google / GitHub | |
| **FR-2** | |  | | --- | |  |  |  | | --- | | **Product Management** | | Sellers can add, edit, and delete product listings  Upload images, set prices, define stock quantity |
| **FR-3** | **Product Discovery & Ordering** | Customers browse, search, and filter products Add products to cart, place orders, and select delivery options |
| **FR-4** | **Reviews & Ratings** | Customers leave reviews for purchased products |
| **FR-5** | **Payments & Checkout** | Customers pay securely using UPI, cards, or wallets  Payment confirmation and order history tracking |

**Non-functional Requirements:**

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

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| --- | --- | --- |
| **NFR No.** | **Non-Functional Requirement** | **Description** |
| **NFR-1** | **Usability** | |  | | --- | | Clean and responsive UI for customers, sellers, and admins with intuitive navigation | |
| **NFR-2** | **Security** | |  | | --- | | Secure login, encrypted transactions, and role-based access control. | |
| **NFR-3** | **Reliability** | |  |  | | --- | --- | | |  | | --- | | Core modules like payments, order placement, and messaging must be highly dependable. | | |
| **NFR-4** | **Performance** | Product pages, cart actions, and payment processing should respond within 2 seconds. |
| **NFR-5** | **Availability** | |  | | --- | | Maintain 99.9% uptime, with minimal downtime and clear error handling mechanisms. | |
| **NFR-6** | **Scalability** | |  | | --- | | Support increasing numbers of users, products, and orders without degrading performance. | |