**Project Design Phase-II**

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

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| --- | --- |
| Date | 31 January 2025 |
| Team ID | LTVIP2025TMID55069 |
| Project Name | Shopez - One-stop shop for online purchases |
| 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 Facebook |
| FR-2 | User Confirmation | Confirmation via Email, Confirmation via OTP |
| FR-3 | Product Management | View all products, Search products, Add product to cart |
| FR-4 | Order Management | Place orders, Track order status, View order history |
| FR-5 | Admin Panel | Add, update, and delete products, View all user orders |
| FR-6 | Cart Management | View cart, Remove items from cart, Update product quantity |

**Non-functional Requirements:**

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

| **NFR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-1 | Usability | The application should have an intuitive and user-friendly interface. |
| NFR-2 | Security | User authentication via JWT; passwords are hashed using bcrypt. |
| NFR-3 | Reliability | The system should function without failure during peak loads. |
| NFR-4 | Performance | API response time should be under 3 seconds for normal operations. |
| NFR-5 | Availability | The platform should maintain 99.9% uptime for all services. |
| NFR-6 | Scalability | The architecture should support an increasing number of users and products without performance degradation. |