**Project Design Phase-II**

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

| Date | 26-05-2025 |
| --- | --- |
| Team ID | LTVIP2025TMID59352 |
| Project Name | ShopSmart:Your digital grocery store experience |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

**Functional Requirements – Music Streaming App**

| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| --- | --- | --- |
| **FR-1** | User Authentication | Sign up, Login, Password Reset   |  | | --- | |
| **FR-2** | Product Browsing & Filtering | |  | | --- |  | Browse products by category, apply filters, search functionality | | --- | |
| **FR-3** | Shopping Cart & Checkout | |  | | --- |  | Add to cart, remove from cart, update quantity, secure checkout | | --- | |
| **FR-4** | |  | | --- |  | Payment Integration | | --- | | Online payment with receipt generation and confirmation email |

**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 customers, sellers, and admins. |
| **NFR-2** | **Security** | |  | | --- |  | All data must be encrypted. Implement HTTPS, JWT token auth, and role-based access control. | | --- | |
| **NFR-** | **Performance** | Product pages should load within 2 seconds; cart and order updates should reflect in real-time. |
| **NFR-** | **Availability** | |  | | --- |  | Maintain 99.9% uptime with auto-recovery and failover handling. | | --- | |
| **NFR-** | **Scalability** | |  | | --- |  | Should support high traffic and allow for scaling product categories, sellers, and APIs easily. | | --- | |