**Project Design Phase-II**

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

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| --- | --- |
| Date | 26-05-2025 |
| Team ID | LTVIP2025TMID21098 |
| Project Name | Shopsmart: Your Digital Grocery |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

**✅ Functional Requirements – ShopSmart: Your Digital Grocery Store**

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| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Authentication | Sign up, Login, Logout, Password Reset |
|  |  | JWT token-based secure access |
| FR-2 | Product & Shop Discovery | View featured and regular grocery shops |
|  |  | Browse categories, search and filter products (by price, brand, etc.) |
| FR-3 | Cart & Order Management | Add/remove items to/from cart |
|  |  | Place orders, view cart summary, and track order status |
| FR-4 | Shop Owner Dashboard | Shop login to manage inventory and product listings |
|  |  | Update stock, prices, and order fulfillment status |
| FR-5 | Admin Dashboard | View and manage all shops and customers |
|  |  | Promote stores, manage categories, approve new shop registrations |
| FR-6 | Order History & Reviews | Customers can view past orders |
|  |  | Leave reviews/ratings for shops and products (optional) |

**🛡 Non-Functional Requirements – ShopSmart**

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| --- | --- | --- |
| **NFR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | Usability | Clean, responsive UI for users, shop owners, and admin |
| NFR-2 | Security | Secure HTTPS communication, JWT auth, and strict role-based access |
| NFR-3 | Reliability | Ensure shopping cart, payments, and login/logout function without failure |
| NFR-4 | Performance | Load homepage, product list, and cart under 2 seconds |
| NFR-5 | Availability | Maintain 99.9% uptime for backend and frontend services |
| NFR-6 | Scalability | Support future features like delivery integration, wallet, dynamic pricing |