**Project Design Phase-II**

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

|  |  |
| --- | --- |
| Date | 19-06-2025 |
| Team ID | LTVIP2025TMID52690 |
| Project Name | Book Nest |
| 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, OAuth Login via Google/GitHub |
| **FR-2** | **Book Listings** | View available books, details including title, author, genre, price, and availability |
| **FR-3** | **Book Selection** | Filter by genre, author, rating, or popularity |
| **FR-4** | **Purchase Process** | Add to cart, specify quantity, proceed to secure payment |
| **FR-5** | **Order Confirmation** | Display order confirmation with order ID, price, book info |
| **FR-6** | **Order History** | View current and previous orders, track shipment, give ratings |
| **FR-7** | **Wishlist** | Add/remove books from wishlist |
| **FR-8** | **Admin Dashboard** | Manage users, books, inventory, sellers, analytics |
| **FR-9** | **Seller Dashboard** | Manage book listings, stock, pricing, orders |
| **FR-10** | **Notifications** | Email/SMS confirmations for orders and updates |

**Non-functional Requirements:**

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

|  |  |  |
| --- | --- | --- |
| **NFR No.** | **Requirement** | **Description** |
| **NFR-1** | **Usability** | UI should be intuitive and user-friendly for buyers, sellers, and admins |
| **NFR-2** | **Security** | All user and transaction data must be encrypted; implement role-based access and JWT auth |
| **NFR-3** | **Reliability** | All services including browsing, checkout, and notifications must be consistently available |
| **NFR-4** | **Performance** | Pages should load within 2 seconds; checkout and actions should respond instantly |
| **NFR-5** | **Availability** | Ensure at least 99.9% uptime with backup and recovery plans |
| **NFR-6** | **Scalability** | Must support growth in users, inventory, and orders without performance degradation |