**Project Design Phase-II**

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

| Date | 26-05-2025 |
| --- | --- |
| Team ID | LTVIP2025TMID55498 |
| Project Name | BookNest |
| 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** | |  | | --- | |  |   Book Browsing & Search | Search books by title, author, genre, price, availability |
| **FR-3** | Book Details | |  | | --- | |  |  |  | | --- | | Book Details | |
| **FR-4** | |  | | --- | |  |   Favorites | Add or remove books from favorites list |
| **FR-5** | |  | | --- | |  |   Cart & Order Management | |  | | --- | |  |  |  | | --- | | Add books to cart, place order, receive order  confirmation | |
| **FR-6** | |  | | --- | |  |   Order History & Tracking | |  | | --- | |  |   View past orders, track current orders |
| **FR-7** | |  | | --- | |  |   Admin Management | Admin can manage book listings and user accounts |

**NON-FUNCTIONAL REQUIREMENTS:**

| **NFR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| **NFR-1** | **Usability** | The platform should provide a simple, clean, and responsive UI for all users, ensuring ease of book discovery and purchase |
| **NFR-2** | **Security** | All user, order, and payment data must be encrypted. Implement role-based access and secure authentication mechanisms |
| **NFR-3** | **Reliability** | Book listings, orders, and notifications must be consistently available and dependable |
| **NFR-4** | **Performance** | Pages and search results should load within 2 seconds; order placements and notifications should be processed timely |
| **NFR-5** | **Availability** | The system should ensure 99.9% uptime with minimal downtime to support seamless book discovery and purchase |
| **NFR-6** | **Scalability** | Support a growing number of users, book listings, and concurrent orders without performance degradation |