Project Design Phase-II

# Solution Requirements (Functional & Non-functional)

Date: 20 June 2025

Team ID: LTVIP2025TMID53930

Project Name: BookNest: Where Stories Nestle

Maximum Marks: 4 Marks

## Functional Requirements

The following table outlines the major functional requirements (FR) and corresponding sub-tasks for the BookNest platform.

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| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
| FR-1 | User Registration & Login | Users, sellers, and admins can register/login securely. |
| FR-2 | Book Management | Sellers can add, update, delete books with images and details. |
| FR-3 | Shopping Cart | Users can add books to the cart and manage quantities. |
| FR-4 | Order Placement | Users can place orders and view confirmation & tracking. |
| FR-5 | Seller Dashboard | Sellers can view metrics, manage books, and track orders. |
| FR-6 | Admin Dashboard | Admins can view/delete users/books and update order statuses. |
| FR-7 | Order History | Users can view order history with book details and status. |

## Non-functional Requirements

These non-functional requirements (NFR) define the performance, usability, and scalability of the system.

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| --- | --- | --- |
| NFR No. | Non-Functional Requirement | Description |
| NFR-1 | Usability | Clean UI with clear navigation for all user roles (User, Seller, Admin). |
| NFR-2 | Security | Role-based access, token authentication, and secure API communication. |
| NFR-3 | Reliability | Book management, cart, and orders should not fail on normal usage. |
| NFR-4 | Performance | Page loads and operations (e.g. add-to-cart, book uploads) under 2 seconds. |
| NFR-5 | Availability | Application should be available and functional 24/7 with minimal downtime. |
| NFR-6 | Scalability | Able to support more users, books, and orders without degrading performance. |