

**Project Design Phase-II**  
**Solution Requirements (Functional & Non-functional)**

Date	19 February 2026
Team ID	LTVIP2026TMIDS81807
Project Name	BookNest: Where Stories Nestle
Maximum Marks	

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through form Role selection (Customer / Seller) Secure password creation
FR-2	User Authentication	Login using Email & Password JWT-based authentication
FR-3	Book Browsing & Search	View book listings on dashboard Filter by category / author Search books by title
FR-4	Cart & Order Management	Add books to cart Select quantity Place order
FR-5	Order History	View previous orders Track order status
FR-6	Seller Dashboard	Add new books Update book details Manage inventory View customer orders
FR-7	Admin Governance	Manage users and sellers Approve seller registrations Monitor platform activity
FR-8	Notification System	Order confirmation notifications Status updates after purchase

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Simple and user-friendly interface allowing customers to browse and purchase books easily.
NFR-2	<b>Security</b>	JWT authentication, encrypted passwords, and role-based access to protect user data.
NFR-3	<b>Reliability</b>	System ensures accurate order processing and consistent data storage without loss.
NFR-4	<b>Performance</b>	Fast loading of dashboards and smooth API communication for browsing and ordering.
NFR-5	<b>Availability</b>	Platform accessible online anytime for customers, sellers, and admins.
NFR-6	<b>Scalability</b>	MongoDB and REST architecture allow future expansion to more users, sellers, and book categories.

