

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	Usability	Simple and user-friendly interface allowing customers to browse and purchase books easily.
NFR-2	Security	JWT authentication, encrypted passwords, and role-based access to protect user data.
NFR-3	Reliability	System ensures accurate order processing and consistent data storage without loss.
NFR-4	Performance	Fast loading of dashboards and smooth API communication for browsing and ordering.
NFR-5	Availability	Platform accessible online anytime for customers, sellers, and admins.
NFR-6	Scalability	MongoDB and REST architecture allow future expansion to more users, sellers, and book categories.

