

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

Date	1 Feb 2026
Team ID	LTVIP2026TMIDS77456
Project Name	BookNest: Where Stories Nestle
Maximum Marks	4 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 & Authentication	Registration through Email & Password Login using Email & Password Secure Logout
FR-2	User Profile Management	Profile Management Update Name, Email, Password View Order History
FR-3	Book Browsing & Search	Browse Books View All Books Search by Title / Author View Book Details (Price, Description, Ratings)
FR-4	Cart Management	Shopping Cart Add Book to Cart Update Quantity Remove Book from Cart
FR-5	Order & Checkout	Enter Shipping Details Order Processing
FR-6	Seller Management	Seller Dashboard Add New Books Update Book Details Delete Books View Orders Received
FR-7	Admin Management	Admin Dashboard View All Users Approve Sellers

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The system must provide a simple, intuitive, and responsive user interface accessible on desktop and mobile devices.
NFR-2	Security	The application must use JWT authentication, encrypted passwords, secure API endpoints, and protected routes.
NFR-3	Reliability	The system should function without crashes and ensure correct order processing and data consistency.
NFR-4	Performance	The application should respond within 2–3 seconds under normal load and handle multiple users efficiently.
NFR-5	Availability	The system should be available 24/7 with minimal downtime.
NFR-6	Scalability	The system should support increasing users, books, and sellers without performance degradation.