

Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	17 Feb 2026
Team ID	LTVIP2026TMIDS42169
Project Name	BookNest
Maximum Marks	4 Marks

Functional Requirements

Following are the functional requirements of the BookNest Project.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Authentication	Sign up, Login, Password Reset OAuth login using Google / GitHub
FR-2	Book Browsing & Searching	Search books by title, author, genre Advanced filter and sort features
FR-3	Book Purchase & Checkout	Add to cart, Buy now, Order tracking Cancel and return orders
FR-4	Admin Management	Add/edit/delete book records Manage categories and inventory
FR-5	Review & Rating System	Users can rate and review books
FR-6	Order History	View past purchases and order status

Non-functional Requirements

Following are the non-functional requirements of the BookNest Project.

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The platform should have an intuitive UI/UX for both desktop and mobile users.

NFR-2	Security	All transactions and user data should be encrypted. Role-based access control and secure login must be enforced.
NFR-3	Reliability	Book listing, order placement, and user sessions must function without frequent failures.
NFR-4	Performance	The system should load catalog pages within 2 seconds and process transactions efficiently.
NFR-5	Availability	The system should ensure 99.9% uptime, especially during peak sale hours.
NFR-6	Scalability	Capable of handling increasing number of books, users, and transactions without performance drop.