Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	24 June 2025
Team ID	LTVIP2025TMID53966
Project Name	BookNest: Where Stories Nestle
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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-BN-1	User Registration	Registration through Form Registration via Gmail Registration via LinkedIn
FR-BN-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-BN-3	Book Browsing & Search	Browse by Genre Search by Title/Author Filter by Price, Genre, Rating
FR-BN-4	Cart & Order Management	Add/Remove Books to/from Cart Update Quantity Place Order View Order History
FR-BN-5	Admin Management	Add/Edit/Delete Books Manage Users View All Orders Manage Banners
FR-BN-6	Invoice & Payment	Generate Invoice Secure Payment Gateway Integration
FR-BN-7	Order Tracking	Real-Time Shipment Tracking Delivery Status Updates

Non-functional Requirements

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

FR No.	Non-Functional Requirement	Description
NFR-BN-1	Usability	The platform should provide an intuitive and engaging experience for all users, with a clean, responsive, and mobile-friendly UI.
NFR-BN-2	Security	All user data, book purchases, and transactions must be secured with SSL encryption, JWT-based authentication, and proper access control.
NFR-BN-3	Reliability	The system should handle book orders and user interactions reliably, with fault tolerance and minimal downtime.
NFR-BN-4	Performance	Book listings, search functionality, and order-related APIs should respond quickly, even under high traffic.
NFR-BN-5	Availability	BookNest should remain accessible 24/7, with a target uptime of 99.9% to ensure uninterrupted service.
NFR-BN-6	Scalability	The application must scale effectively to accommodate increasing users, books, and concurrent orders without degradation in performance.