

BookNest: Where Stories Nestle	Team ID: LTVIP2026TMIDS24289
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Requirement Analysis - Solution Requirements

This document defines the functional and non-functional requirements of the BookNest platform.

Functional Requirements

Following are the functional requirements of the BookNest solution:

SR#	Module	Requirement	Priority
FR1	User Authentication	Users must be able to register with name, email, and password	High
FR2	User Authentication	Users must be able to login and logout securely	High
FR3	Book Browsing	Users must be able to view all available books listed on the platform	High
FR4	Book Browsing	Users must be able to view individual book details including title, author, genre, price	High
FR5	Wishlist	Users must be able to add and remove books from their wishlist	High
FR6	Order Management	Users must be able to place orders for books	High
FR7	Order Management	Users must be able to view their order history	High
FR8	Seller Dashboard	Sellers must be able to register, login, and manage their profile	High
FR9	Seller Dashboard	Sellers must be able to add new books with image, title, author, genre, price	High
FR10	Seller Dashboard	Sellers must be able to view and delete their own book listings	High
FR11	Seller Dashboard	Sellers must be able to view orders placed for their books	Medium
FR12	Admin Dashboard	Admin must be able to view all registered users and sellers	High

FR13	Admin Dashboard	Admin must be able to delete users, sellers, and book listings	High
FR14	Admin Dashboard	Admin must be able to view all books listed on the platform	Medium

Non-Functional Requirements

Following are the non-functional requirements of the BookNest solution:

SR#	Category	Requirement	Priority
NFR1	Performance	The platform must load pages within 3 seconds under normal network conditions	High
NFR2	Security	All passwords must be hashed using bcrypt before storing in the database	High
NFR3	Security	User sessions must be managed securely using localStorage tokens	High
NFR4	Scalability	The MongoDB database must be able to handle a growing number of users and book listings	Medium
NFR5	Usability	The UI must be responsive and accessible on desktop and mobile devices	High
NFR6	Reliability	The backend server must handle API errors gracefully and return appropriate error messages	High
NFR7	Maintainability	The codebase must be modular with separate frontend (React) and backend (Express) structures	Medium
NFR8	Availability	The application must be available 24/7 with minimal downtime	Medium

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