

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

Date	20 February 2026
Team ID	LTVIP2026TMIDS34775
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	Sub Requirement
FR-1	User Registration	Email & Password Registration
FR-2	User Authentication	JWT Login & Logout
FR-3	Book Browsing	Display 100+ Books with Details
FR-4	Search & Filter	Search by Title/Author, Filter by Genre
FR-5	Cart Management	Add/Remove Books, Calculate Total
FR-6	Order Processing	Place Order & Store in Database
FR-7	Order History	View Past Orders with Date & Total
FR-8	Admin Management	Add/Edit/Delete Books & Users

**Non-functional Requirements:**

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

NFR No.	Requirement	Description
NFR-1	Usability	Clean, Responsive & Animated UI
NFR-2	Security	JWT Authentication & Encrypted Passwords
NFR-3	Reliability	Consistent Performance without Crashes
NFR-4	Performance	Response Time < 2 Seconds
NFR-5	Availability	24/7 Cloud Deployment (Render + Vercel)
NFR-6	Scalability	Handles Growing Users & Books