**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

**Date:** 26-06-2025  
**Team ID:** LTVIP2025TMID42803  
**Project Name:** Booknest  
**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 Authentication | Sign up, Login, Password Reset, and login using Google / GitHub |
| FR-2 | Book Browsing & Details | Search books by title, author, or genre; view book details |
| FR-3 | Book Management | Add, update, or delete books (Admin only) |
| FR-4 | Borrowing & Reservation | Users can reserve or borrow available books; return books |
| FR-5 | Notifications & Alerts | Notify users about due dates, reservations, and availability |

### Non-functional Requirements:

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

| NFR No. | Non-Functional Requirement | Description |
| --- | --- | --- |
| NFR-1 | Usability | The platform should provide a user-friendly and accessible UI for all users, including admins and book borrowers. |
| NFR-2 | Security | All data must be encrypted. Implement role-based access, input validation, and secure authentication. |
| NFR-3 | Reliability | Book search, borrowing, and notifications should be consistently available and dependable. |
| NFR-4 | Performance | Page loads and user actions should complete within 2 seconds. Notifications should be real-time or near-real-time. |
| NFR-5 | Availability | Ensure 99.9% system uptime with proper error handling and fallbacks. |
| NFR-6 | Scalability | System must support an increasing number of users and books without performance degradation. |

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