Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Date | 29 JUNE 2025 |
| Team ID | LTVIP2025TMID54832 |
| Project Name | BOOKNEST: Where stories nestle |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

Functional Requirements – BOOKNEST:

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| --- | --- | --- |
| **S.No** | **Functionality** | **Description** |
| 1 | User Registration & Login | Allows users to create an account, login, logout, and reset passwords |
| 2 | Book Search & Filter | Enables users to search and filter books by genre, author, rating, price, etc. |
| 3 | View Book Details | Displays book information: title, author, price, description, cover, etc. |
| 4 | Add to Cart & Wishlist | Users can add/remove books from cart and wishlist |
| 5 | Checkout Process | Collects user address, applies discounts, and processes payments |
| 6 | Order Management | Users can view order history and track order status |
| 7 | User Profile Management | Allows users to update personal details and change passwords |
| 8 | Admin Book Management | Admin can add, update, or delete books in the catalog |
| 9 | Admin Order/User Management | Admin can view and manage user accounts and order records |
| 10 | Responsive Design | Ensures usability on mobile, tablet, and desktop devices |
| 11 | Notification System | Sends email confirmations for registration and orders |

**Non-Functional Requirements – BookNest**

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| --- | --- | --- |
| **S.No** | **Requirement** | **Description** |
| 1 | Performance | Pages should load within 2 seconds under normal network conditions |
| 2 | Scalability | The system must support growing numbers of users and book listings |
| 3 | Security | User data must be encrypted; secure login and payment gateway integration |
| 4 | Usability | The interface should be intuitive and easy to navigate for all user types |
| 5 | Availability | The system should be available 99.9% of the time (excluding maintenance) |
| 6 | Compatibility | Should work across major browsers and mobile/desktop devices |
| 7 | Maintainability | Codebase should allow easy updates and debugging |
| 8 | Reliability | System should handle user actions without crashing or data loss |
| 9 | Localization (Optional) | Should support multiple languages for wider reach (if planned) |