**Project Design Phase-II**

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

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| --- | --- |
| Date | 28-06-2025 |
| Team ID | LTVIP2025TMID46195 |
| Project Name | BookNest |
| Maximum Marks | 4 Marks |

## Functional Requirements

Following are the functional requirements of the BookNest Project.

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| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Authentication | Sign up, Login, Password Reset OAuth login using Google / GitHub |
| FR-2 | Book Browsing & Searching | Search books by title, author, genre Advanced filter and sort features |
| FR-3 | Book Purchase & Checkout | Add to cart, Buy now, Order tracking Cancel and return orders |
| FR-4 | Admin Management | Add/edit/delete book records Manage categories and inventory |
| FR-5 | Review & Rating System | Users can rate and review books |
| FR-6 | Order History | View past purchases and order status |

## Non-functional Requirements

Following are the non-functional requirements of the BookNest Project.

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| --- | --- | --- |
| **NFR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | Usability | The platform should have an intuitive UI/UX for both desktop and mobile users. |
| NFR-2 | Security | All transactions and user data should be encrypted. Role-based access control and secure login must be enforced. |
| NFR-3 | Reliability | Book listing, order placement, and user sessions must function without frequent failures. |
| NFR-4 | Performance | The system should load catalog pages within 2 seconds and process transactions efficiently. |
| NFR-5 | Availability | The system should ensure 99.9% uptime, especially during peak sale hours. |
| NFR-6 | Scalability | Capable of handling increasing number of books, users, and transactions without performance drop. |