# Project Design Phase-II

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

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| **Date** | 24 June 2025 |
| **Team ID** | LTVIP2025TMID53966 |
| **Project Name** | BookNest: Where Stories Nestle |
| **Mentor Name** | Dr Shaik Salma Begam |
| **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-BN-1 | User Registration | Registration through Form  Registration via Gmail  Registration via LinkedIn |
| FR-BN-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-BN-3 | Book Browsing & Search | Browse by Genre  Search by Title/Author  Filter by Price, Genre, Rating |
| FR-BN-4 | Cart & Order Management | Add/Remove Books to/from Cart  Update Quantity  Place Order  View Order History |
| FR-BN-5 | Admin Management | Add/Edit/Delete Books  Manage Users  View All Orders  Manage Banners |
| FR-BN-6 | Invoice & Payment | Generate Invoice  Secure Payment Gateway Integration |
| FR-BN-7 | Order Tracking | Real-Time Shipment Tracking  Delivery Status Updates |

**Non-functional Requirements**

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

| **FR No.** | **Non-Functional Requirement** | **Description** |
| --- | --- | --- |
| NFR-BN-1 | Usability | The platform should provide an intuitive and engaging experience for all users, with a clean, responsive, and mobile-friendly UI. |
| NFR-BN-2 | Security | All user data, book purchases, and transactions must be secured with SSL encryption, JWT-based authentication, and proper access control. |
| NFR-BN-3 | Reliability | The system should handle book orders and user interactions reliably, with fault tolerance and minimal downtime. |
| NFR-BN-4 | Performance | Book listings, search functionality, and order-related APIs should respond quickly, even under high traffic. |
| NFR-BN-5 | Availability | BookNest should remain accessible 24/7, with a target uptime of 99.9% to ensure uninterrupted service. |
| NFR-BN-6 | Scalability | The application must scale effectively to accommodate increasing users, books, and concurrent orders without degradation in performance. |