**Project Design Phase-II**

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

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| Date | 15 April 2025 |
| Team ID | SWTID1743689010 |
| Project Name | Book Store |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through Form  Registration through Gmail  Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | Book Browsing | View all books Filter by genre, author, price Search by title or keyword |
| FR-4 | Shopping Cart & Checkout | Add to cart Update quantity Remove from cart Proceed to checkout Payment gateway integration |
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**Non-functional Requirements:**

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

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| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | User-friendly UI with intuitive navigation and responsive design |
| NFR-2 | **Security** | JWT-based authentication, password encryption, secure payment gateway |
| NFR-3 | **Reliability** | Ensures accurate order processing and data persistence during peak usage |
| NFR-4 | **Performance** | Fast load times and optimized database queries for smooth interactions |
| NFR-5 | **Availability** | 99.9% uptime with fallback/error handling for service disruptions |
| NFR-6 | **Scalability** | Ability to handle increasing users and book listings using cloud services |