**Project Design Phase-II**

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

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| --- | --- |
| Date | 03-12-2025 |
| Team ID |  |
| Project Name | Bookstore |
| Maximum Marks | 4 Marks |

## **Functional Requirements – BookStore**

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub‑Task)** |
| FR‑1 | User Authentication | Sign up, Login, Logout, Password Reset. |
|  |  | OAuth login using Google / GitHub (optional).​ |
| FR‑2 | Book Catalog & Discovery | Browse and search books by title, author, genre, rating. |
|  |  | Filter and sort books by price, popularity, and newest arrivals.​ |
| FR‑3 | Cart, Order & Payment Management | Add / remove books from cart, view cart summary.​ |
|  |  | Secure checkout, place order, integrate online payment gateway. |
|  |  | View order history and order status tracking.​ |
| FR‑4 | Review & Rating | Customers add, edit, and view reviews and ratings for books.​ |
| FR‑5 | Admin Inventory Management | Admin adds, updates, deletes book records and stock. |
|  |  | Admin manages user accounts and views orders. |

## **Non‑functional Requirements – BookStore**

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| **NFR No.** | **Non‑Functional Requirement** | **Description** |
| NFR‑1 | Usability | Clean, intuitive UI so users can find and buy books with minimal clicks. |
| NFR‑2 | Security | All traffic over HTTPS; JWT auth, encrypted passwords, and secure payments. |
| NFR‑3 | Reliability | Core flows (login, catalog, checkout) must work correctly under normal load. |
| NFR‑4 | Performance | Pages and search results should load within 2 seconds on average. |
| NFR‑5 | Availability | System should target at least 99.5% uptime for public pages and checkout. |
| NFR‑6 | Scalability | Architecture must handle growth in users, books, and orders without major redesign. |