**Project Design Phase-II**

**Technology Stack (Architecture & Stack)**

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

**Technical architecture:**

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| **S.No** | **Component** | **Description** | **Technology** |
| **1** | **User Interface** | **Web-based interface for browsing, searching, and purchasing books.** | **React.js, HTML, CSS, JavaScript, Bootstrap.image.jpg​** |
| **2** | **Application Logic‑1** | **Handles authentication, book browsing, search, cart, and checkout.** | **Node.js, Express.js, JSON Web Tokens, bcrypt.image.jpg​** |
| **3** | **Application Logic‑2** | **Admin panel for managing books, orders, and users.** | **Node.js, Express.js, React.js (admin UI).image.jpg​** |
| **4** | **Database** | **Stores users, books, orders, and reviews data.** | **MongoDB, Mongoose ODM.image.jpg​** |

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| **S.No** | **Characteristics** | **Description** | **Technology** |
| 5 | Open‑Source Frameworks | Built with open-source frontend and backend frameworks. | React.js, Node.js, Express.js.image.jpg​ |
| 6 | Scalable Architecture | 3‑tier RESTful architecture supporting future enhancements. | MERN stack with RESTful APIs.image.jpg​ |