**Project Design Phase**

**Proposed Solution Template**

| Date | 15 February 2025 |
| --- | --- |
| Team ID | SWTID1743519094 |
| Project Name | BookStore |
| Maximum Marks | 2 Marks |

**Proposed Solution:-**

| **S.No.** | **Parameter** | **Description** |
| --- | --- | --- |
|  | Problem Statement (Problem to be solved) | Many students, readers, and professionals struggle to find, compare, and purchase books online due to scattered platforms, lack of personalized recommendations, and limited regional access to titles. Local bookstores often lack digital presence, making it harder for users to buy or explore easily. |
|  | Idea / Solution description | We propose a full-featured online bookstore using the MERN stack (MongoDB, Express, React, Node.js). The platform will provide:  • User authentication  • Book browsing and search  • Wishlist and cart management  • Online payment integration  • Admin panel for inventory and orders  • Delivery tracking & notifications. |
|  | Novelty / Uniqueness | • Seamless user experience with fast, modern UI using React  • Personalized book suggestions  • Integration of delivery & tracking APIs  • Responsive Progressive Web App (PWA) design  • Optional student-focused features like textbook exchanges or study bundles.  • Cloud-hosted scalable backend with auto-deployment pipelines. |
|  | Social Impact / Customer Satisfaction | • Promotes reading by making books more accessible  • Supports local/regional bookstores with digital listing opportunities  • Offers a clutter-free, fast and mobile-friendly shopping experience  • Student-friendly pricing options and easy book discoverability  • Eco-friendly impact with digital management over physical stores. |
|  | Business Model (Revenue Model) | • Commission-based model on each book sale  • Subscription plan for premium members (discounts, early access)  • Ad space for publishers or featured listings  • Seller plans for local bookstore owners to list inventory |
|  | Scalability of the Solution | • Built on scalable cloud infrastructure (MongoDB Atlas, Render/Vercel)  • Easily supports horizontal scaling as traffic grows  • Microservice-friendly backend architecture  • Expandable into mobile apps, audiobook marketplace, or eBook reader support |