**Project Design Phase**

**Proposed Solution Template**

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| Date | 22 June 2025 |
| Team ID | LTVIP2025TMID20320 |
| Project Name | Booknest: Where Stories Nestle |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

Project team shall fill the following information in the proposed solution template.

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| **S.No.** | **Parameter** | **Description** |
| 1 | **Problem Statement** | In today’s busy lifestyle, book lovers often struggle to find time to visit physical stores. Moreover, local availability and selection are often limited. There is a need for a centralized online platform to browse, wishlist, and purchase books conveniently, with the ability for admins to manage inventory efficiently. |
| 2 | **Idea / Solution Description** | Booknest is a full-stack MERN web application that serves as an online bookstore. It allows users to register/login, browse/filter books by genre or author, add to wishlist/cart, and place orders. Admins can upload books, manage inventory, and track orders through a secured dashboard. The system is role-based, responsive, and scalable. |
| 3 | **Novelty / Uniqueness** | Unlike static book listings or basic e-commerce demos, Booknest includes features like image upload, dynamic wishlist toggling, admin-controlled order status updates, and JWT-based secure role access. It simulates real-world functionality typically found in large e-commerce platforms but built fully as a solo MERN stack project. |
| 4 | **Social Impact / Customer Satisfaction** | The solution empowers readers with easier access to diverse book collections and allows book sellers/admins to manage inventory digitally. It supports learning, literacy, and digital convenience—especially helpful for students, working professionals, and rural readers. |
| 5 | **Business Model (Revenue Model)** | Booknest can adopt a commission-based model for authors/vendors, ad monetization, or subscription-based premium access (e.g., early releases, personalized recommendations). Affiliate partnerships with publishers can also be considered. |
| 6 | **Scalability of the Solution** | Built with a modular, RESTful, and stateless architecture using the MERN stack, Booknest is fully scalable. It can be extended to support multi-vendor management, mobile apps, payment integration, analytics, and even cloud-native deployment using services like Vercel, Render, or AWS. |