Project Design Phase
Proposed Solution Template

Date	12 February 2026
Team ID	LTVIP2026TMIDS34775
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.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Many existing online bookstores have poor navigation, complicated checkout processes, lack of engaging UI, and weak backend integration. Users struggle to discover books easily and complete purchases smoothly and securely.
2.	Idea / Solution description	BookNest is a MERN stack-based online bookstore that provides secure user authentication, 100+ categorized books, advanced search & filtering, cart management, order tracking, and a responsive animated UI. It is deployed on Render (Backend) and Vercel (Frontend) with MongoDB Atlas as the cloud database.
3.	Novelty / Uniqueness	The platform combines modern MERN architecture, secure JWT authentication, animated user interface, structured filtering system, and cloud deployment to provide a seamless digital book purchasing experience. The focus on user-friendly design and smooth navigation enhances engagement.
4.	Social Impact / Customer Satisfaction	BookNest improves accessibility to books for students and professionals, reduces dependency on physical stores, enhances reading culture, and provides a convenient digital platform for discovering and purchasing books. It increases customer satisfaction through simplicity, speed, and security.
5.	Business Model (Revenue Model)	Revenue can be generated through book sales margin, commission from publishers, premium memberships, featured book promotions, advertisements, and future integration of payment gateway & subscription model.
6.	Scalability of the Solution	The solution is cloud-deployed and scalable. MongoDB Atlas supports database scaling, and backend/frontend services can be scaled independently. The architecture allows future integration of payment systems, AI-based recommendations, and mobile app expansion.