

### BookNest: Where Stories Nestle – Project Details

Field	Details
Project Name	BookNest: Where Stories Nestle
Team ID	LTVIP2025TMID20432
Frontend	React.js (Vite)
Backend	Node.js with Express.js
Database	MongoDB (Mongoose)
Authentication	JWT-based (Users, Sellers, Admins)
Key Features	Book listing, cart, reviews, admin dashboard
Architecture Style	RESTful Microservices
Version Control	Git + GitHub
Tools	VS Code, Postman, MongoDB Compass
Future Scope	Payment API, mobile app, AI recommendations

### Architecture Overview

The BookNest application uses a layered architecture with the following components:

- Client: Built in React, handles UI rendering and API communication.
- API Gateway: Node.js + Express.js routes handle requests.
- Auth Service: JWT-based login/registration and role checks.
- Services: Inventory, Orders, Users, Admin - each modular.
- Database: MongoDB with collections for books, users, orders, etc.

### Architecture Diagram

