Technology Stack

Date	20 Feb 2026
Team ID	LTVIP2026TMIDS79402
Project Name	Booknest : Where stories nestle
Maximum Marks	

Technology Stack:

Category	Technology / Tool	Purpose
Frontend Framework	React.js	Building interactive and dynamic user interface
Backend Runtime	Node.js	Server-side JavaScript runtime environment
Backend Framework	Express.js	Building RESTful APIs and handling server routes
Database	MongoDB	Storing book, user, and order data
Database ODM	Mongoose	Connecting and modeling MongoDB data in Node.js
Authentication	JWT (JSON Web Token)	Securing user login and protected routes
Password Encryption	bcrypt	Hashing user passwords securely
State Management	React Hooks / Context API	Managing cart and user state
API Testing Tool	Postman	Testing backend APIs during development
Environment Configuration	.env (dotenv)	Storing sensitive data like DB URL and JWT secret
Deployment Platform (Optional)	Render / Vercel / Localhost	Hosting backend and frontend applications
Version Control	Git + GitHub	Code management and project submission
Package Manager	npm	Managing project dependencies
UI Styling	CSS3 / Bootstrap / Tailwind CSS	Designing responsive and modern interface
Browser Compatibility	Chrome, Edge, Firefox	Ensuring application works across modern browsers
IDE / Code Editor	Visual Studio Code	Developing frontend and backend code