

# **BOOK STORE**

## **MERN Stack Project Documentation**

### **ABSTRACT**

The Online Book Store is a web-based application developed using the MERN (MongoDB, Express.js, React.js, Node.js) stack. The main objective of this project is to provide an easy and user-friendly platform for users to browse, search, and purchase books online. The system eliminates the need for physical visits to bookstores and enables efficient book management through a digital platform. This application supports features such as user authentication, book listing, cart management, and order processing.

## **1. INTRODUCTION**

### **Project Title:** PosBooks - MERN Full Stack

With the rapid growth of e-commerce, online book stores have become increasingly popular. This project aims to design and develop a full-stack web application that allows users to explore books of various categories, view book details, and place orders seamlessly. The MERN stack is used to ensure scalability, performance, and maintainability of the application.

## **2. PROBLEM STATEMENT**

Traditional book stores require physical presence, which may be inconvenient for users. Managing inventory, tracking sales, and updating book details manually is time-consuming and error-prone. There is a need for an online system that provides easy access to books, efficient inventory management, and a smooth purchasing experience.

### **3. EXISTING SYSTEM**

- Manual book searching and purchasing
- Limited availability of books
- Time-consuming inventory management
- No centralized digital database

### **LIMITATIONS**

- Requires physical presence
- Limited operational hours
- Inefficient record management

### **4. PROPOSED SYSTEM**

The proposed Online Book Store provides a digital platform where users can browse and purchase books online. Admins can manage books, categories, and orders efficiently.

### **ADVANTAGES**

- 24/7 availability
- Easy book search and filtering
- Secure user authentication
- Efficient inventory management

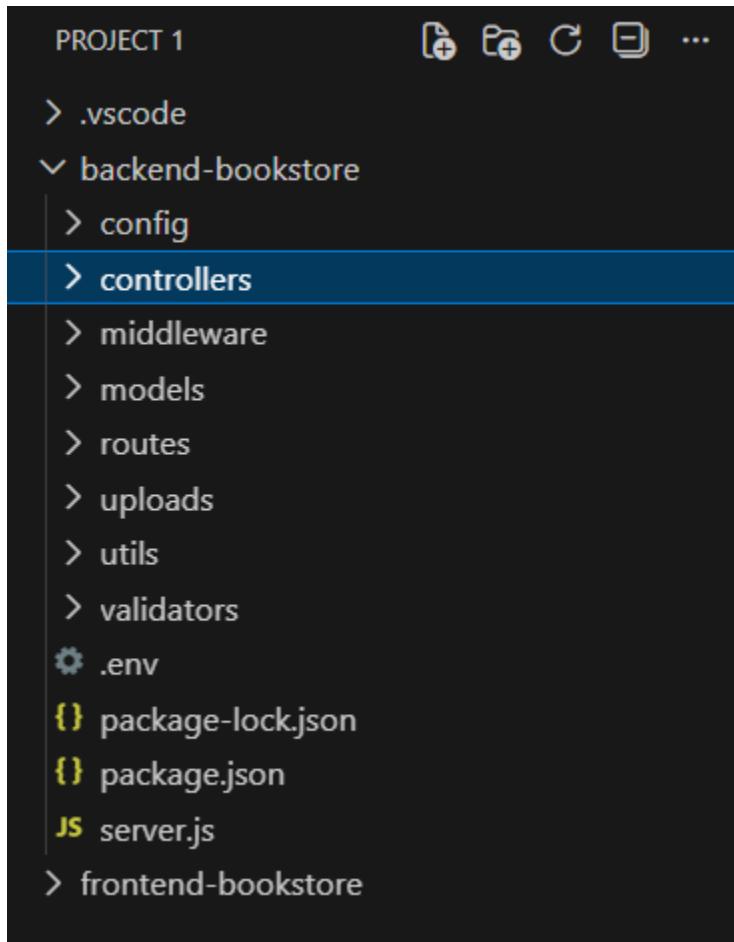
## 5. SYSTEM ARCHITECTURE

The system follows a client-server architecture:

- Frontend: React.js

```
> .vscode
> backend-bookstore
✓ frontend-bookstore
  > public
  ✓ src
    > assets
    > components
    > context
    > pages
    > utils
    # App.css
    ☀ App.jsx
    # index.css
    ☀ main.jsx
    ♦ .gitignore
    ○ eslint.config.js
    ▷ index.html
    { package-lock.json
    { package.json
    ⓘ README.md
    JS tailwind.config.js
    ⚡ vite.config.js
```

- Backend: Node.js with [Express.js](#)



- Database: MongoDB

The frontend communicates with the backend using RESTful APIs. The backend processes requests and interacts with the database to store and retrieve data.

## **6. TECHNOLOGY STACK**

### **Frontend**

- React.js
- HTML5
- CSS3
- JavaScript
- Tailwind

### **Backend**

- Node.js
- Express.js

### **Database**

- MongoDB

### **Tools**

- Visual Studio Code
- GitHub
- Thunder Client
- Postman

## 7. MODULE DESCRIPTION

### User Module

- User registration and login

**Welcome Back**

Login to continue your reading journey  

Email

Password

**Login**

New here? Create an account

**Create Account**

Begin your literary adventure — SignUp  

Name

Email

Password

Select Role

**Register**

Already have an account? [Login](#)

- View books and details

**PosBooks**

Home Books Wishlist My Orders Logout (admin)

### Books List

**Web programming**  
Author: rogan  
Genre: education  
**₹150000**

[Remove](#) [View](#)

**UX AND UI STRATEGY**  
A Step by step Guide on UX and UI design

**₹100000**

[Remove](#) [View](#)

**TREASURE ISLANDS**

**₹10000000**

[Remove](#) [View](#)

**Bright Book of Life**  
Novels to Read and Reread —  
Harold

**₹500000**

[Remove](#) [View](#)

**INTRODUCTION TO IoT**  
Sudip Misra, Aninditap Mulherjee, Arun Roy

**₹9000**

[Wishlist](#) [View](#)

**PosBooks**

Home Books Wishlist My Orders Logout (admin)

**Description**

webprogramming book

**Info**

**Title:** Web programming  
**Author:** rogan  
**Genre:** education  
**Price:** ₹150000  
**Seller:** seller1

[Buy Now](#)

- Add books to Wishlist

**PosBooks**

Home Books Wishlist My Orders Logout (admin)

### My Wishlist

**Web programming**  
Added by: admin

[Remove](#) [View](#)

**UI**  
Added by: admin

[Remove](#) [View](#)

**treasure**  
Added by: admin

[Remove](#) [View](#)

**Bright Book of Life**  
Novels to Read and Reread —

**Bright**  
Added by: admin

[Remove](#) [View](#)

- Place orders

**PosBooks**

Home Books Wishlist My Orders Logout (admin)

### My Orders

**Product:** Web programming (education)  
**Seller:** seller1  
**Price:** ₹150099  
**Booking Date:** 2025-11-21  
**Delivery By:** 2025-11-26  
**Status:** On the way

**Delivery Address:**  
50,anna layout, gandhipuram,, Coimbatore, tamilnadu (641016)

**Product:** treasure (adventure)  
**Seller:** seller1  
**Price:** ₹10000099  
**Booking Date:** 2025-11-21  
**Delivery By:** 2025-11-26  
**Status:** On the way

**Delivery Address:**  
52,r v layout, ondipudur,Coimbatore, Coimbatore, tamilnadu (641016)

**Product:** UI (design)  
**Seller:** seller1  
**Price:** ₹100099  
**Booking Date:** 2025-11-21  
**Delivery By:** 2025-11-26  
**Status:** On the way

**Delivery Address:**  
52,r v layout, ondipudur,Coimbatore, Coimbatore, tamilnadu (641016)

# Seller Module

- Add new books

### Add New Book

Book Title

Author

Price (₹)

Genre

Description

Book Image  
Choose File No file chosen

- Manage inventory

Seller Dashboard[Home](#) [Add Book](#) [Logout](#)

### Seller Dashboard

Welcome back, seller1!

Books  
**0**

Orders  
**0**

Seller Profile

Name: Mouli Seller  
Email: seller@example.com  
Store Name: Mouli Books  
Joined: Wed Jan 10 2024

Recent Orders

Recent Orders

Order ID	Book	Qty	Total	Status
No orders yet.				

## ● View orders

PosBooks

Home Books Wishlist My Orders Logout (admin)

### My Orders

**Product:** Web programming (education)  
**Seller:** seller1  
**Price:** ₹1500099  
**Booking Date:** 2025-11-21  
**Delivery By:** 2025-11-26  
**Status:** On the way

**Delivery Address:**  
50,anna layout, gandhipuram,, Coimbatore, tamilnadu (641016)

**Product:** treasure (adventure)  
**Seller:** seller1  
**Price:** ₹100000099  
**Booking Date:** 2025-11-21  
**Delivery By:** 2025-11-26  
**Status:** On the way

**Delivery Address:**  
52,r v layout, ondipudur,Coimbatore, Coimbatore, tamilnadu (641016)

**Product:** UI (design)  
**Seller:** seller1  
**Price:** ₹1000099  
**Booking Date:** 2025-11-21  
**Delivery By:** 2025-11-26  
**Status:** On the way

**Delivery Address:**  
52,r v layout, ondipudur,Coimbatore, Coimbatore, tamilnadu (641016)

## **8. RESULT AND OUTPUT**

The Online Book Store application successfully allows users to browse books, manage their cart, and place orders. The admin panel enables efficient management of books and orders. The application provides a smooth and responsive user experience.

## **9. CONCLUSION AND FUTURE ENHANCEMENT**

### **CONCLUSION**

The Online Book Store project demonstrates the effective use of the MERN stack in building a full-stack web application. It provides a scalable and efficient solution for online book purchasing.

### **FUTURE ENHANCEMENT**

- Online payment integration
- Book reviews and ratings
- Recommendation system
- Mobile application support