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.

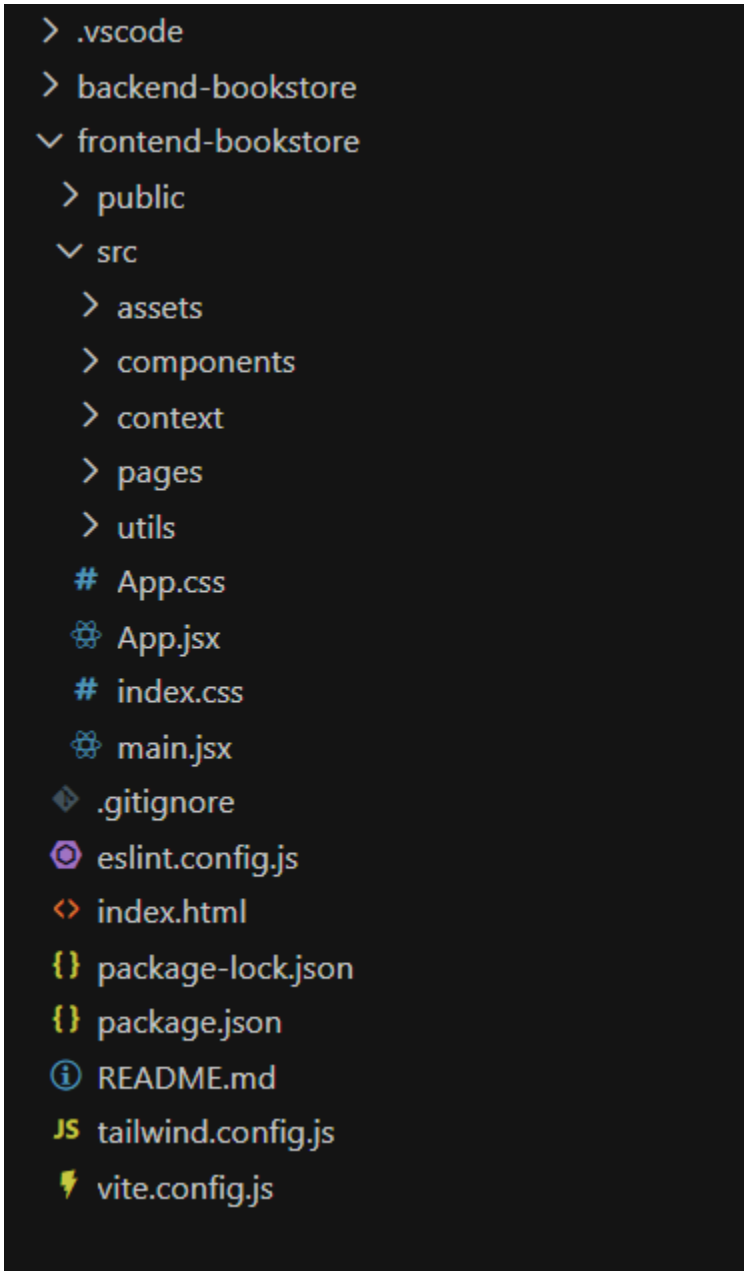
ADVANTAGES

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

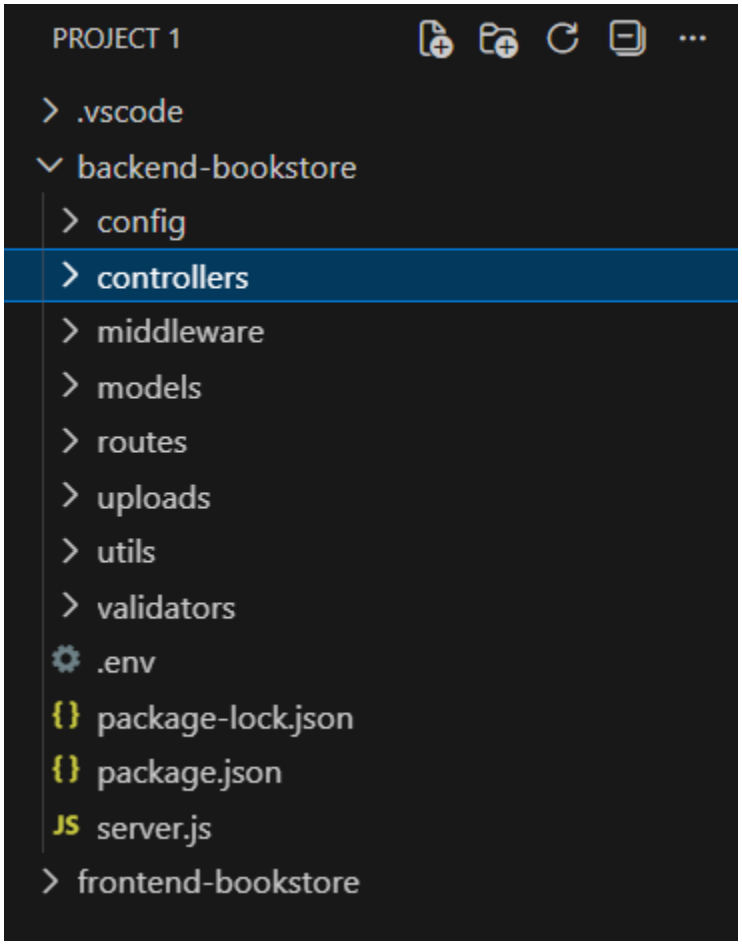
5. SYSTEM ARCHITECTURE

The system follows a client-server architecture:

- Frontend: React.js



- 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

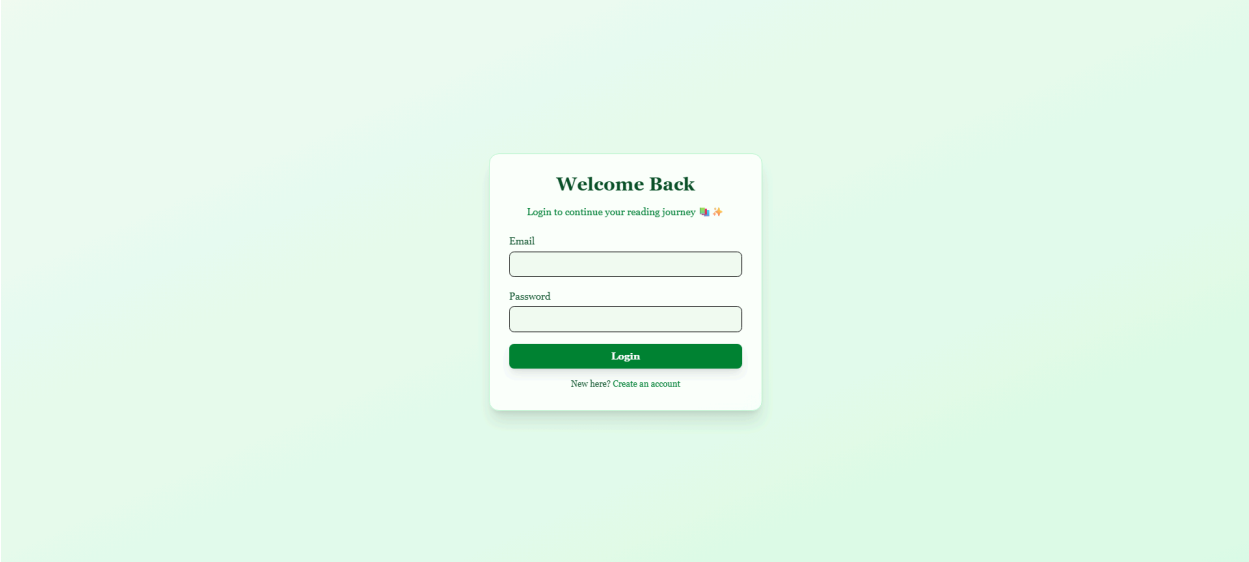
Tools

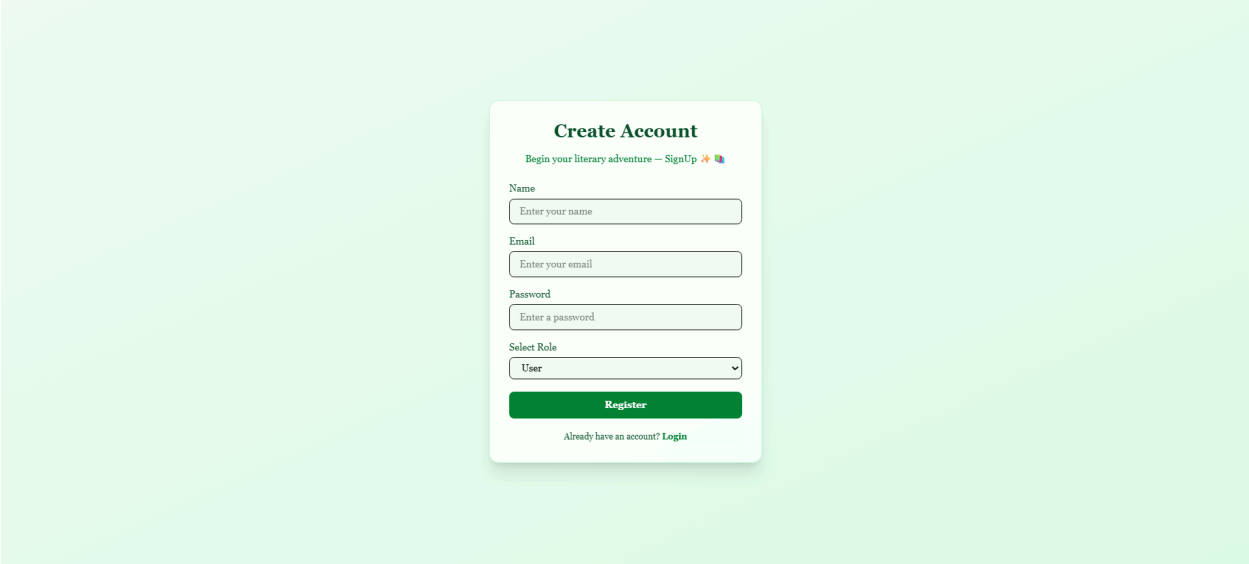
- Visual Studio Code
- GitHub
- Thunder Client
- Postman

7. MODULE DESCRIPTION

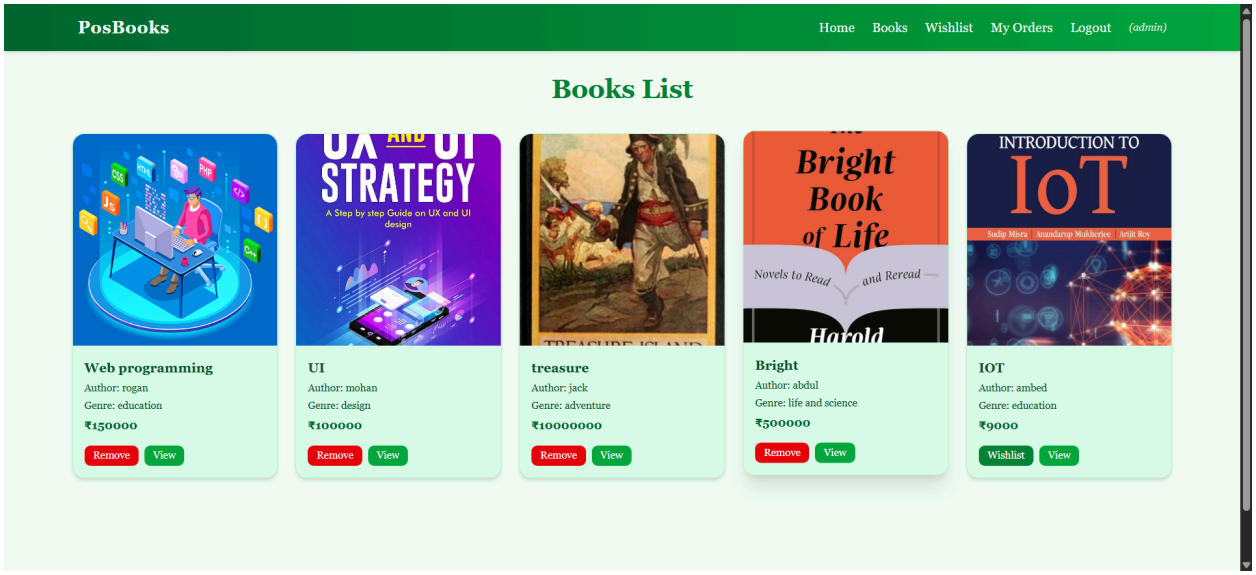
User Module

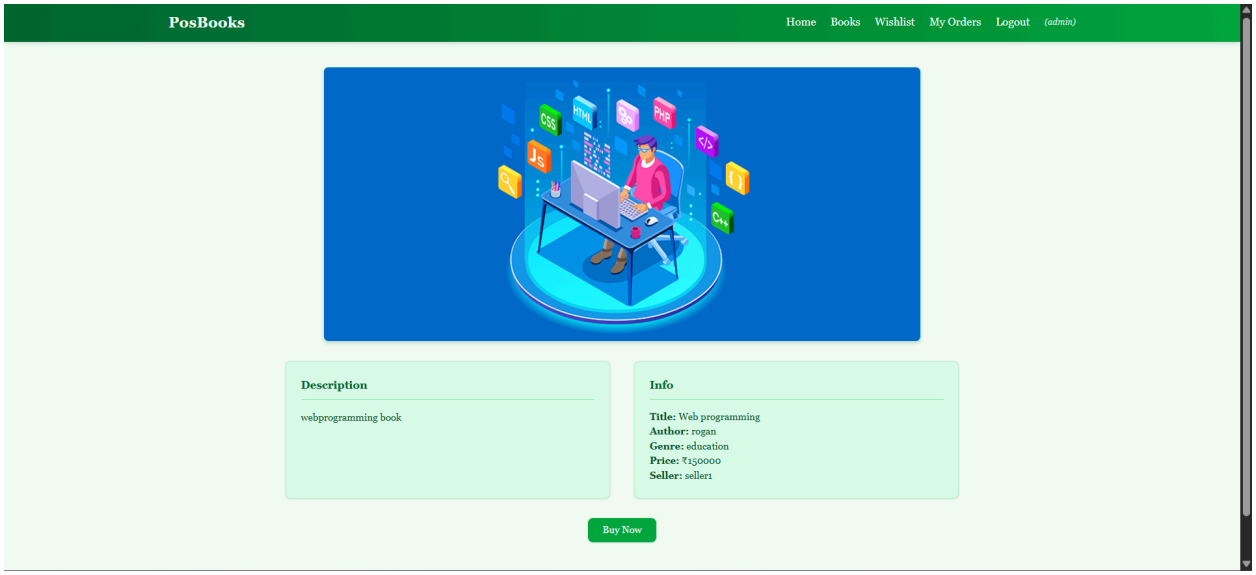
- User registration and login



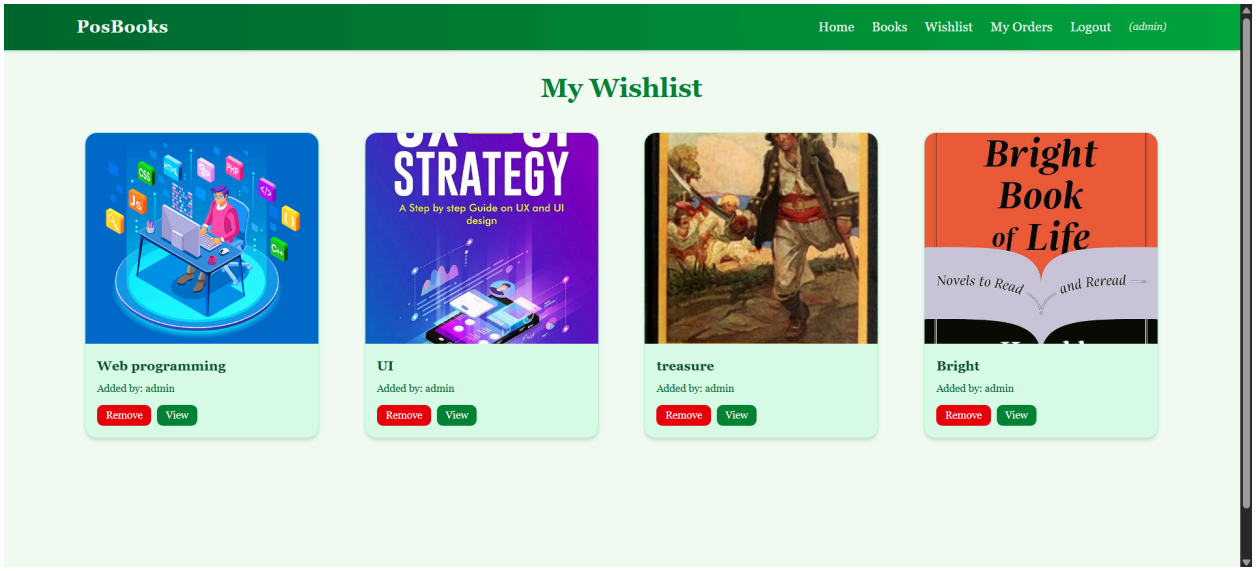


- View books and details

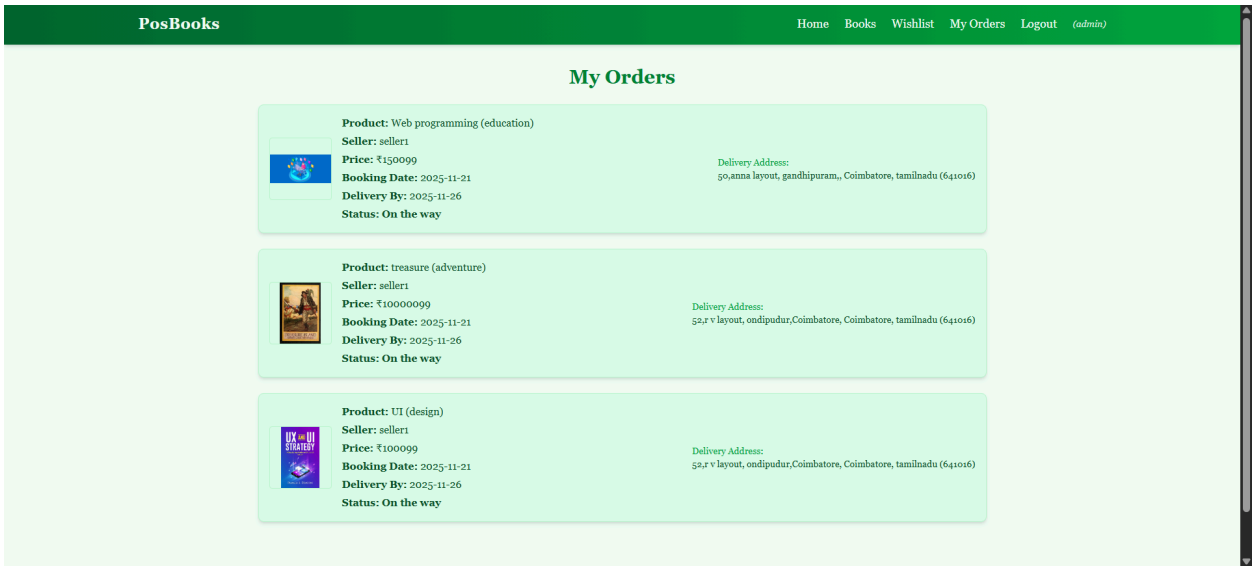




- Add books to Wishlist

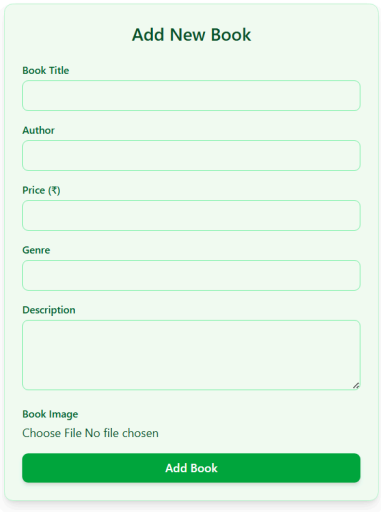


- Place orders

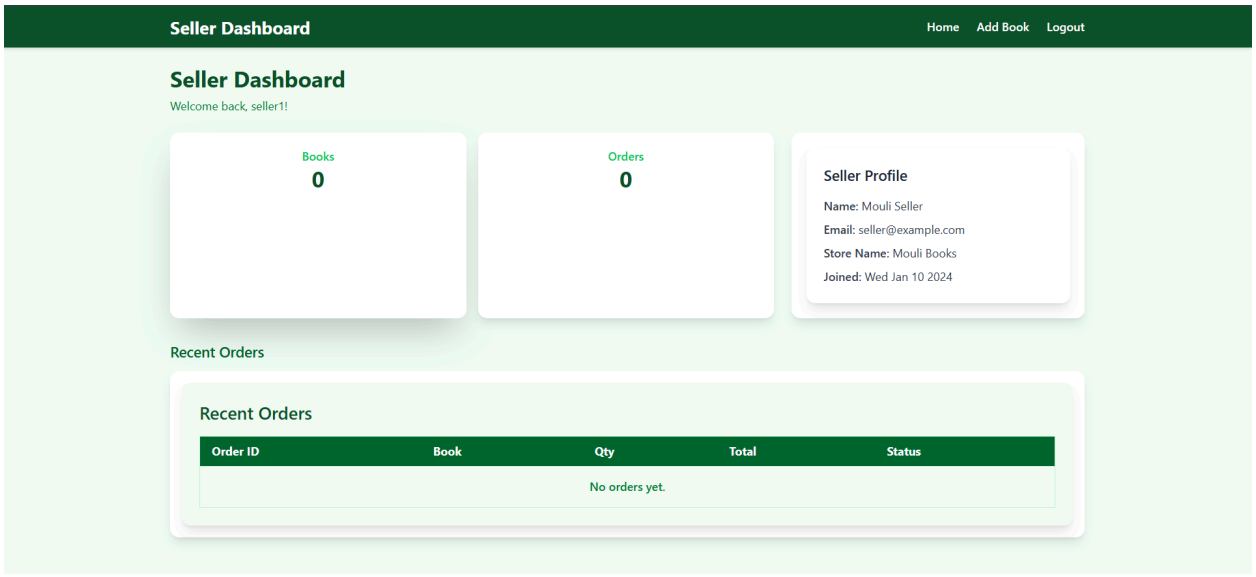


Seller Module

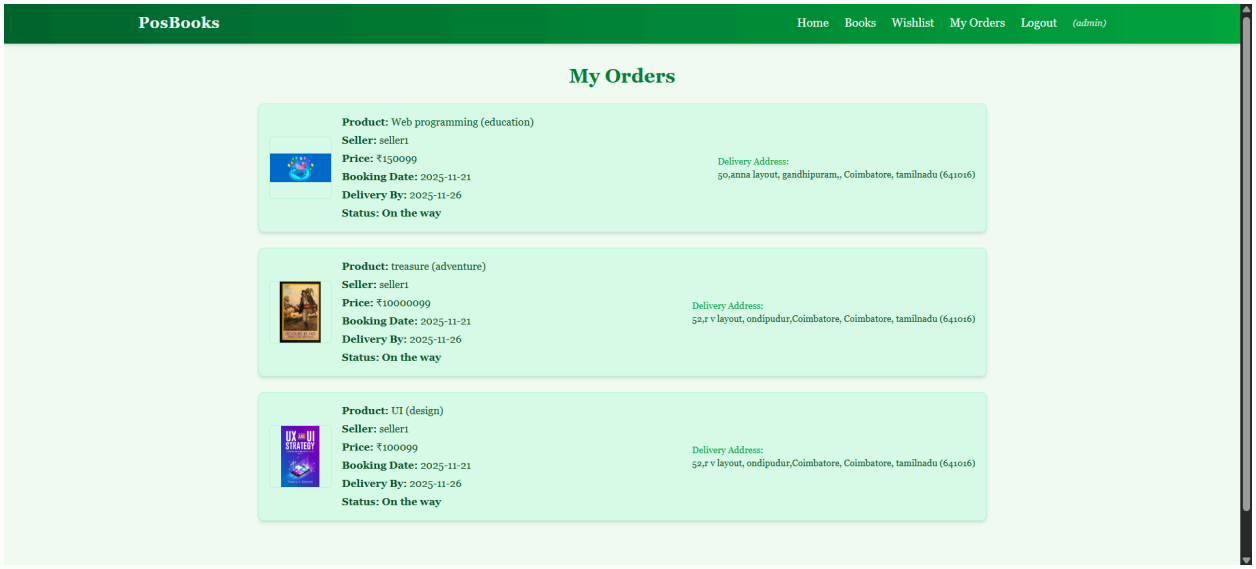
- Add new books



- Manage inventory



- View 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:
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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