

BookBazaar – MERN Full Stack Project Documentation

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1. Introduction

Project Title: BookBazaar – Online Book Selling Platform
Solo project developed by the author listed above.

2. Project Overview

Purpose:

BookBazaar is a full-stack MERN application designed to allow users to browse, buy, and wishlist books. Sellers can upload and manage their products, while the admin can monitor users, sellers, and orders.

Features:

- User authentication and role-based access (Admin, Seller, User)
- Browse books with detailed product pages
- Add books to wishlist
- Order books with full checkout flow
- Seller dashboard to upload/manage their books
- Admin dashboard with complete system overview (Users, Sellers, Orders)

3. Architecture

Frontend:

React (Vite) is used for the UI with TailwindCSS for styling. AXIOS handles API requests.

Backend:

Node.js with Express.js powering the REST API. Role-based endpoints control access for admin, users, and sellers.

Database:

MongoDB is used with Mongoose models for Admin, User, Seller, Item, Order, and Wishlist collections.

4. Setup Instructions

Prerequisites:

- Node.js 18+ - MongoDB local or Atlas - Git

Installation:

1. Clone the repository
2. Install backend dependencies: npm install
3. Install frontend dependencies: npm install (inside client folder)
4. Create .env file with MONGO_URI and PORT
5. Run backend and frontend

5. Folder Structure

Client Structure:

/src /components /pages /utils App.jsx, main.jsx

Server Structure:

/models /db server.js .env

6. Running the Application

Frontend: npm run dev

Backend: node server.js

7. API Documentation

Authentication:

POST /signup – Create user

POST /login – Login user

POST /ssignup – Create seller

POST /slogin – Login seller

POST /asignup – Create admin

POST /alogin – Login admin

Item Endpoints:

POST /items – Add book

GET /item – Get all books

GET /item/:id – Get single book

GET /getitem/:userId – Seller books

DELETE /itemdelete/:id – Delete book

Order Endpoints:

POST /userorder – Create order

GET /getorders/:userId – User orders

GET /orders – Admin all orders

DELETE /orders/:id – Cancel order

Wishlist Endpoints:

POST /wishlist/add

GET /wishlist/:userId

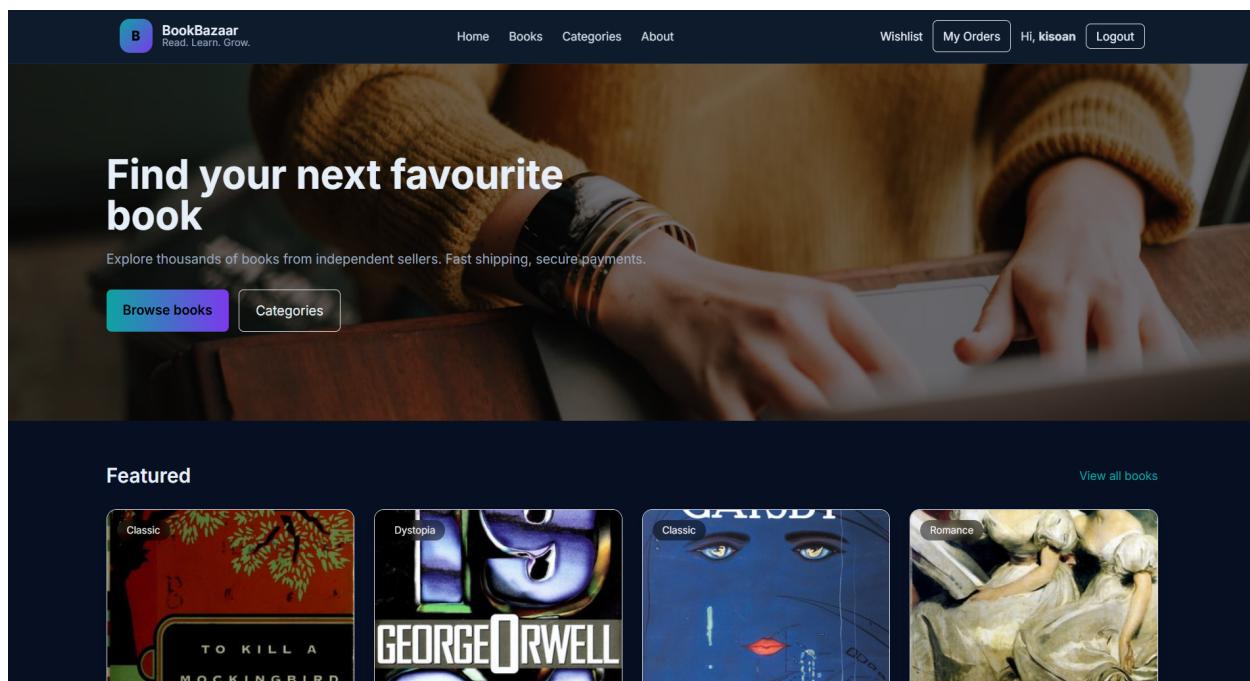
POST /wishlist/remove

8. Authentication

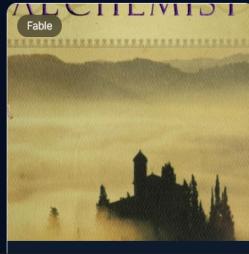
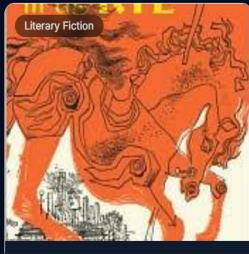
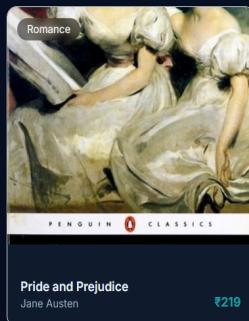
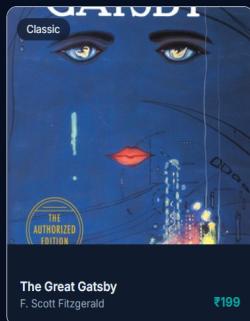
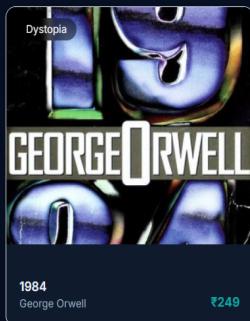
LocalStorage-based session handling for users, sellers, and admin. Navigation dynamically adapts based on role.

9. User Interface

Below are screenshots of the application UI (Home, Books grid, Wishlist, My Orders, Signup):



Books



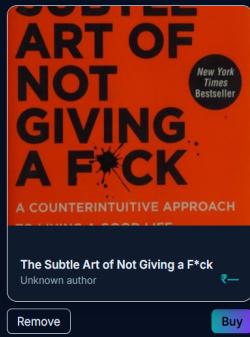
BookBazaar
Read. Learn. Grow.

Home Books Categories About

Wishlist My Orders Hi, kisoan Logout

My Wishlist

3 items



BookBazaar
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My Orders

The Lean Startup
Eric Ries

Amount: ₹349
Ordered on: 12/7/2025
Delivery: 2025-12-04

[View](#) [Cancel Order](#)



Create an account

Choose your role and sign up.

Account type

User (Buyer)

Full name

Your name

Email

you@example.com

Password

Create a password (min 6 chars)

[Create User account](#)

Already have an account? [Sign in](#)

10. Testing

Tested manually using Thunder Client, Postman, and console logs. Client-side handled with React Developer Tools.

11. Known Issues

- Orders created before itemId integration will not link to book detail
- Image URLs must be valid to avoid placeholder fallback

12. Future Enhancements

- Payment gateway integration
- Seller analytics dashboard
- Book reviews & rating system
- OTP-based login

