RentBox - Rental E-Commerce Platform

Project Overview

RentBox is a rental-based e-commerce platform. Users can rent products (books, tools, gadgets) for 3, 7, or 30 days. Logged-in users can add/edit/delete their own products, rent other items, leave reviews with star ratings and comments. It includes real booking logic, review system, and dynamic user-driven content.

Tech Stack

Frontend:

- React.js

- Tailwind CSS

- Axios

- React Router

- react-datepicker

- react-stars

Backend:

- Node.js + Express.js

- MongoDB + Mongoose

- JWT + bcrypt

- Multer (image upload)

- date-fns (date logic)

Optional:

- Razorpay

- Cloudinary

- PDFKit

Features

- User Signup/Login (JWT auth)

- Add/Edit/Delete own product listings

- Upload product image (Multer)

- Date-based rental booking with price auto-calc

- Prevent booking overlap via date range logic

- View personal listings & rental history

- Review system (rating + comment)

- Calculate and display average rating

- Filter by category/date/rating

Project Folder Structure

RentBox/

 client/ (React)

   components/

   pages/

   context/

 server/ (Node.js)

   models/

   routes/

   controllers/

   middleware/

   uploads/

Backend Logic Summary

- Auth: JWT with middleware for protected routes

- Add Product: Owner linked to logged-in user ID

- Edit/Delete: Only allowed if user owns the item

- Rent: Check availability dates, block overlapping

- Review: One per user per product (editable), avg rating update

- My Listings: Show products created by user

- My Rentals: Show products user has rented

Timeline - 14 Days Plan

Day 1: Setup React + Express + MongoDB

Day 2: Auth system (Register/Login)

Day 3-4: Product CRUD with image upload

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Day 5: My Listings page

Day 6-7: Rent logic with booking overlap checks

Day 8: Price calc from date

Day 9: Review system

Day 10: Avg rating logic

Day 11: Filters (category/date)

Day 12: UI polish + responsive design

Day 13: Deploy backend (Render)

Day 14: Deploy frontend (Vercel)

Bonus Features (Optional)

- PDF receipt (PDFKit)

- Razorpay payment

- Email return reminders

- Image hosting with Cloudinary

- Chat system with Socket.io

- Admin dashboard