Hackathon Day 4:
Car Rental Marketplace Development

🚀 Day 4 Overview: Template 7 Progress

As the hackathon progresses, I've successfully completed Day 4 of development for Template 07. Here's a quick summary of the major milestones achieved:

- ✅ Built a fully functional car rental marketplace
- ✅ Integrated Next.js, TypeScript, and Sanity CMS
- ✅ Developed key features like car listings, checkout, and order tracking
- ✅ Enhanced user experience with a responsive and intuitive interface

🌟 Project Highlights: Next.js-Powered Car Rental Platform

This car rental platform is designed to connect renters with available vehicles seamlessly. It prioritizes:

- User Convenience – Simple browsing, filtering, and checkout process
- Admin Efficiency – Easy-to-manage dashboard for rental operations
- Scalability – A robust framework using modern web technologies

🔑 Key Features

Core Features of the Platform

1. Home Page:
2. The homepage is designed to grab attention with featured cars, promotional banners, and easy navigation. It's the perfect starting point for users to explore rental options.
3. Car Listings Page:
4. Users can browse through a wide range of cars, filtering by category (SUVs, Sedans, Trucks), price, and availability. The layout is clean and intuitive, making it easy to find the perfect car.
5. Car Detail Page:
6. Each car has its own dedicated page with detailed information, including specs, pricing, photos, and availability. This helps users make informed decisions before renting.
7. Cart & Checkout Process:
8. The platform includes a smooth cart system where users can add cars, select rental dates, and complete their bookings with ease.
9. User Profile & Order Tracking:
10. Users can manage their personal details, save preferences, and track their rental history. It's all about making the experience as convenient as possible.
11. Admin Dashboard:
12. Administrators have full control over car listings, bookings, and availability. It's a powerful tool for managing the platform efficiently.

🛠️ Tech Stack

Frontend:

✔️ Next.js – Fast and dynamic frontend framework

✔️ React.js – Modular and reusable UI components

✔️ TypeScript – Type safety and better maintainability

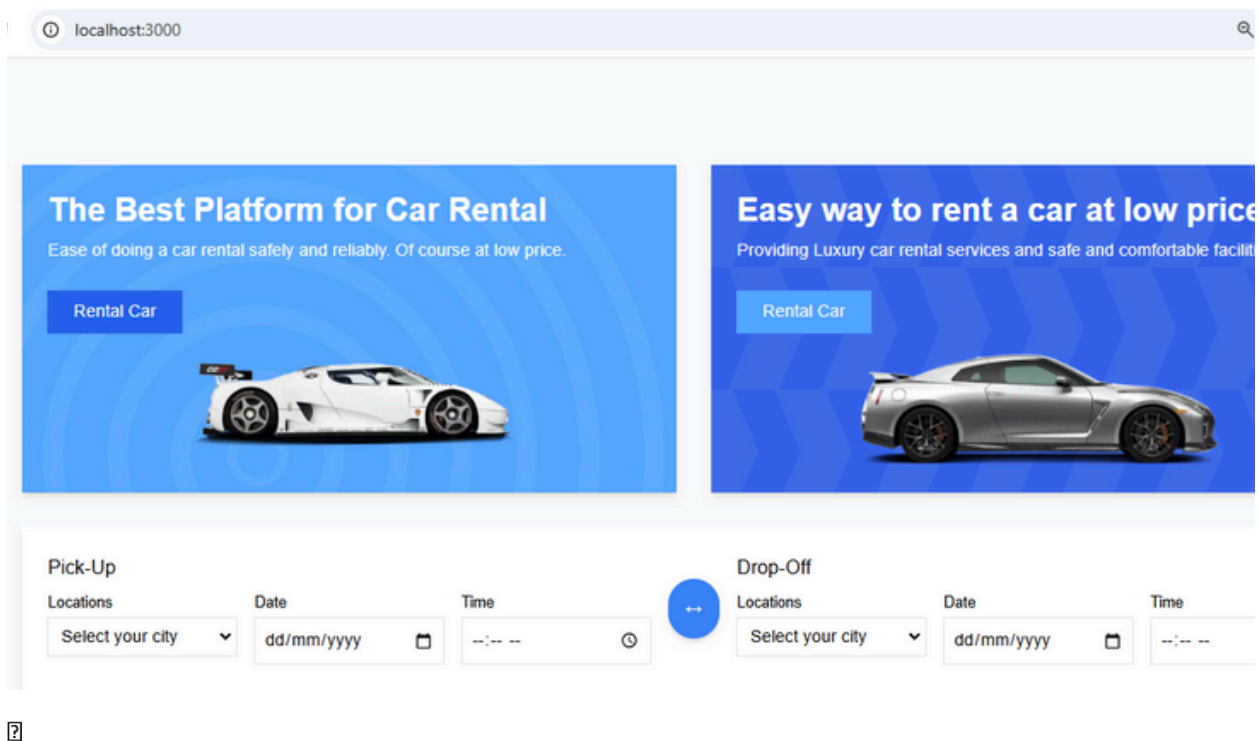✔️ Tailwind CSS – Clean, responsive, and modern styling

Backend:

✔️ Sanity CMS – Content management for car listings and data

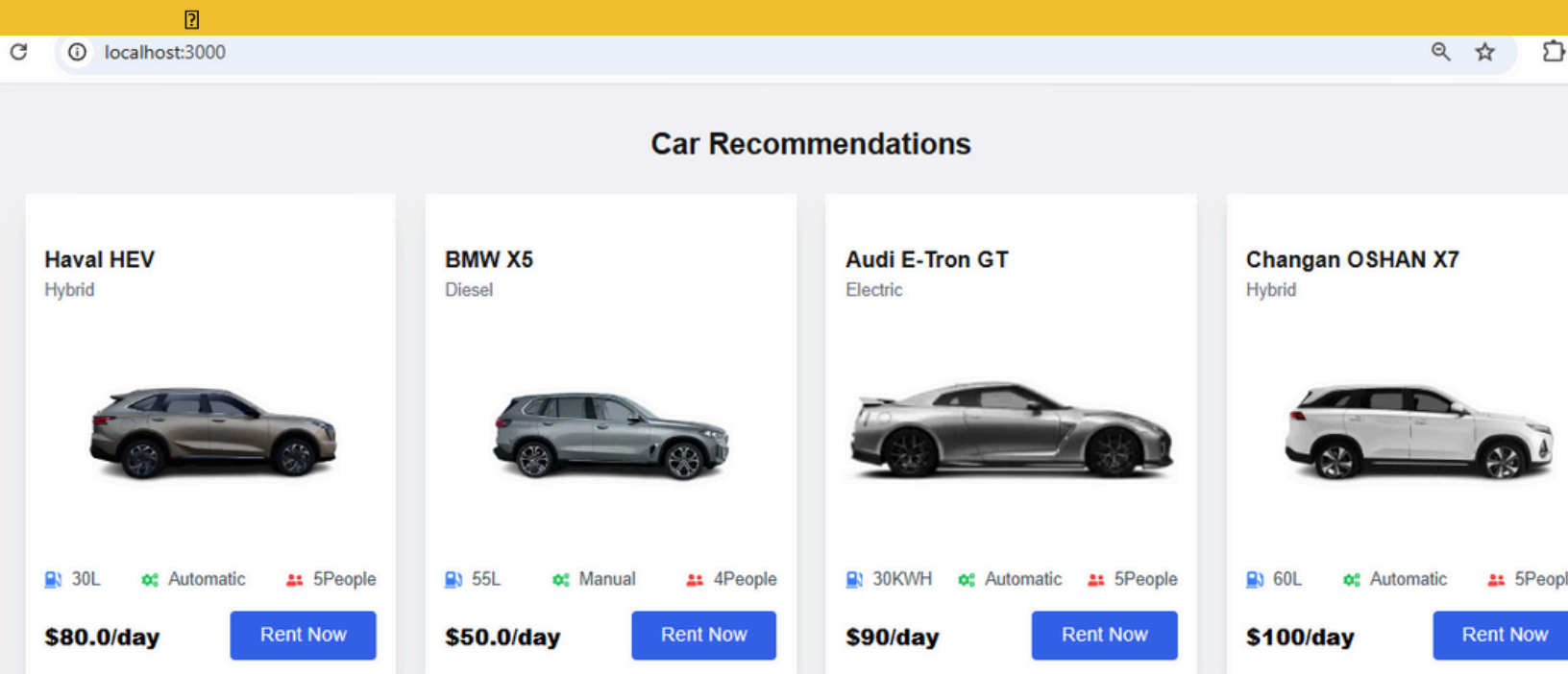## Updated Project Features for Rental Car Marketplace :

1. Home Page:

A stylish landing page showcasing featured cars, the latest deals, and promotional offers for rentals. It dynamically loads the most popular rental cars and offers easy navigation to the main categories.
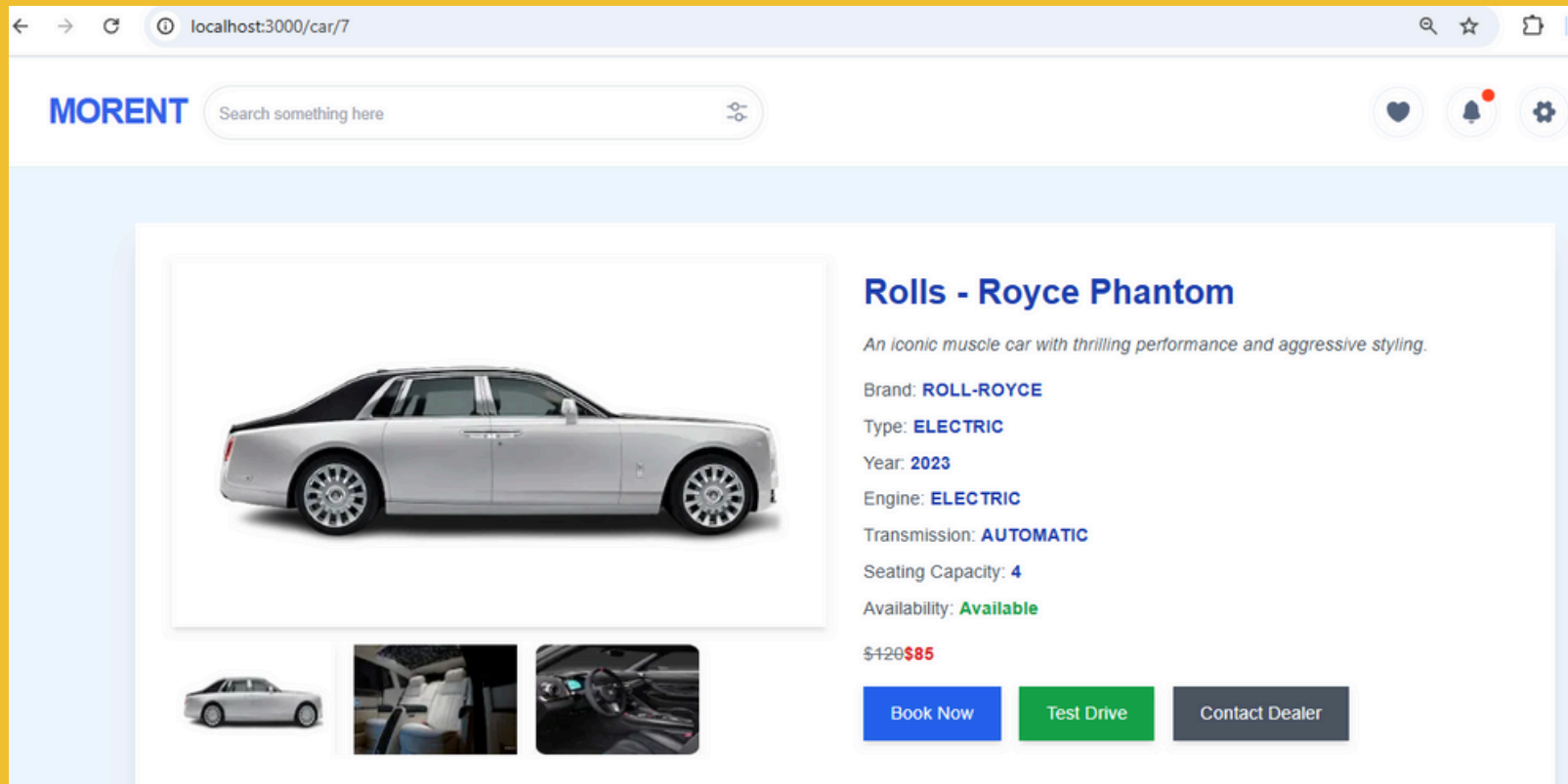

Recommended Car Listing Page:

A page where users can browse through cars available for rent. It features category-based filtering like SUVs, Sedans, Trucks, etc., along with sorting by price and rental duration.

Car Recommendations

Haval HEV
Hybrid

🔋 30L ⚙ Automatic 👥 5People

$80.0/day Rent Now

BMW X5
Diesel

🔋 55L ⚙ Manual 👥 4People

$50.0/day Rent Now

Audi E-Tron GT
Electric

🔋 30KWH ⚙ Automatic 👥 5People

$90/day Rent Now

Changan OSHAN X7
Hybrid

🔋 60L ⚙ Automatic 👥 5Peopl

$100/day Rent Now

Car Detail Component:
A detailed page for each car, showing specifications, pricing, features, images, and availability status.

localhost:3000/car/7

MORENT Search something here

Rolls - Royce Phantom

An iconic muscle car with thrilling performance and aggressive styling.

Brand: **ROLL-ROYCE**

Type: **ELECTRIC**

Year: **2023**

Engine: **ELECTRIC**

Transmission: **AUTOMATIC**

Seating Capacity: **4**

Availability: **Available**

$120 **$85**

Book Now Test Drive Contact Dealer

Category Component:

A filterable list of car categories (e.g., SUVs, Sedans, etc.), helping users quickly find what they're looking for.

Available Cars for Rent

All | Electric | Hybrid | Gasoline | Diesel

Haval HEV
Hybrid

30L | Automatic | 5People

$80.0/day | Rent Now

BMW X5
Diesel

55L | Manual | 4People

$50.0/day | Rent Now

Audi E-Tron GT
Electric

30KWH | Automatic | 5People

$90.0/day | Rent Now

Changan OSHAN X7
Hybrid

60L | Automatic | 5People

$75.0/day | Rent Now

Available Cars for Rent

All | Electric | Hybrid | Gasoline | Diesel

Haval HEV
Hybrid

30L | Automatic | 5People

$80.0/day | Rent Now

Changan OSHAN X7
Hybrid

60L | Automatic | 5People

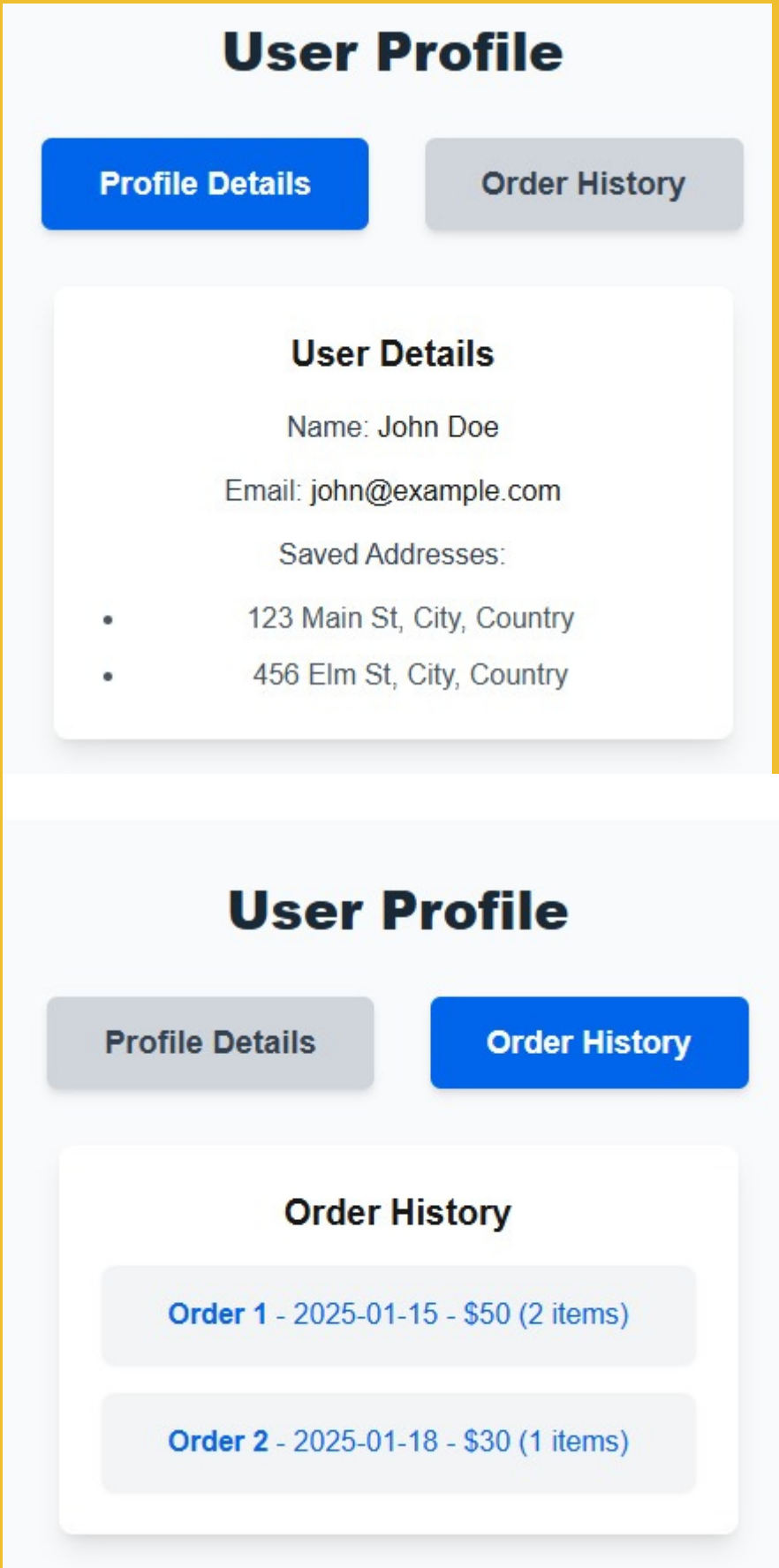$75.0/day | Rent Now

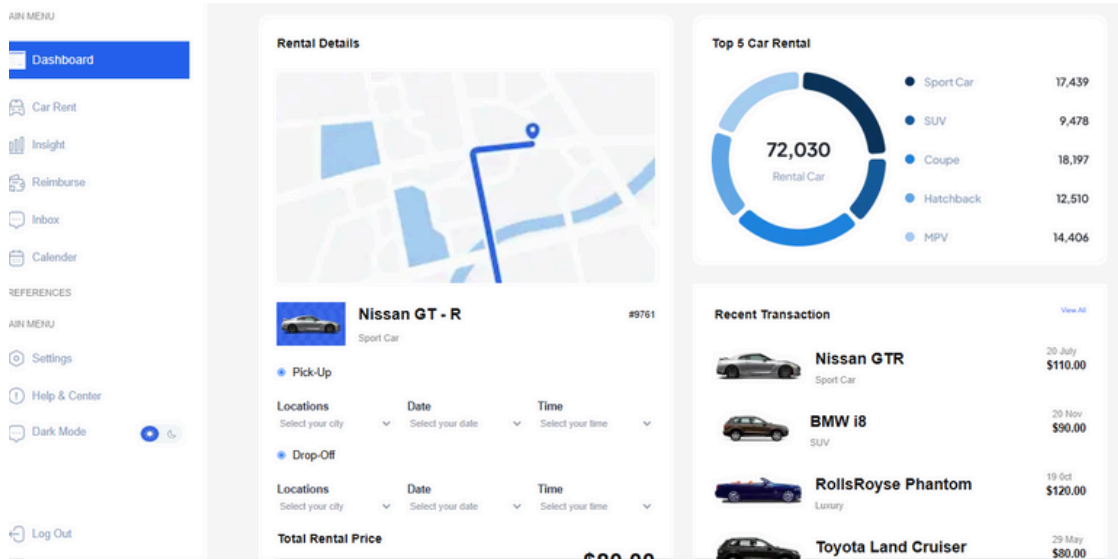**Corolla Cross**
Hybrid

30L | Automatic | 2People

$60.0/day | Rent Now

User Profile Component: A page where users can view and update their personal details, saved addresses, and track their rental history.

User Profile

Profile Details   Order History

User Details

Name: John Doe

Email: john@example.com

Saved Addresses:

- 123 Main St, City, Country
- 456 Elm St, City, Country

Order History

Order 1 - 2025-01-15 - $50 (2 items)

Order 2 - 2025-01-18 - $30 (1 items)
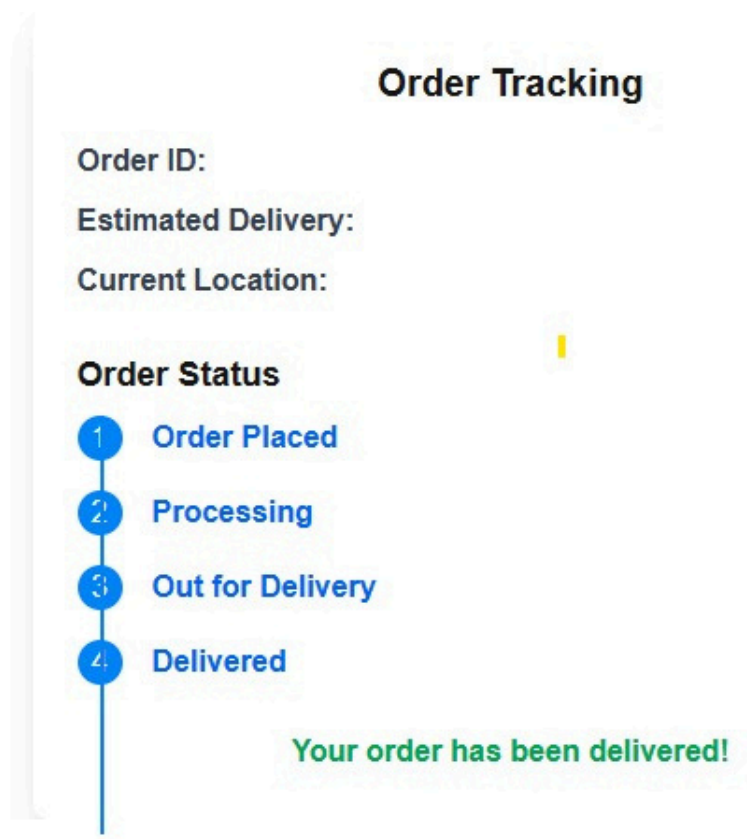
Admin Dashboard:
An interface for admins to manage car listings, view ongoing rentals, monitor car availability, and update the status of available cars.

📍 Order Tracking System
How It Works:
1. **Step-by-step tracking - Users get live updates on their rental**
2. **Order ID assignment - Unique tracking for each rental**
3. **Estimated pickup/delivery time - Clear scheduling details**
4. **Real-time status updates - Track rental progress from "Booked" to "Returned"**

Changes in the Structure:

1. **HOME PAGE:**
   - o o Featured Cars Popular Categories (SUV, Sedan, etc.)
   - o Promotional Offers

2. **CAR LISTINGS:**
   - o Filter by Price, Category, Availability, and Rental Duration.

3. **CAR DETAIL PAGE:**
   - o o Detailed Info (Car Specs, Images, Pricing, Availability) Rent Button (Add to Cart for rental)

4. **CART/CHECKOUT PAGE:**
   - o Users can view and edit their rental orders, select rental period, and confirm bookings.

5. **USER PROFILE PAGE:**
   - o View personal details and rental history.

6. **ADMIN DASHBOARD:**
   - o Manage Listings (Add/Edit Cars)
   - o Track Rentals Analytics for Rental Trends
   - o and Popular Cars

Why It Stands Out?
✅ Interactive progress bar for better visibility
✅ Real-time updates with a sleek, user-friendly interface
✅ Clear notifications for each step of the rental process

📊 **Project Summary & Achievements**
This hackathon project has been a fantastic learning journey, allowing me to build a scalable and user-friendly car rental marketplace. Here's what I've accomplished:
🚗 **Developed a fully functional rental platform**
📌 **Built a dynamic UI with Next.js & Tailwind CSS**
⚡ **Optimized performance & responsiveness**
🛠️ **Integrated Sanity CMS for backend management**

✅ **Self-Validation Checklist (Day 4 Progress)**

Task	Status
Frontend Component Development	✅ Completed
Responsive Design Implementation	✅ Completed
Admin Dashboard Integration	✅ Completed
Checkout & Order Tracking	✅ Completed
Documentation & Final Touches	✅ In Progress