

MARKET PLACE HACKATHON 2025 DAY 04: BUILDING DYNAMIC COMPONENTS FOR MARKETPLACE

Dynamic Frontend Components for Rental Car E-Commerce

Successfully built a **dynamic and feature-rich frontend** for rental car e-commerce platform. Here's a structured breakdown of all the essential components that enhance user experience and functionality.

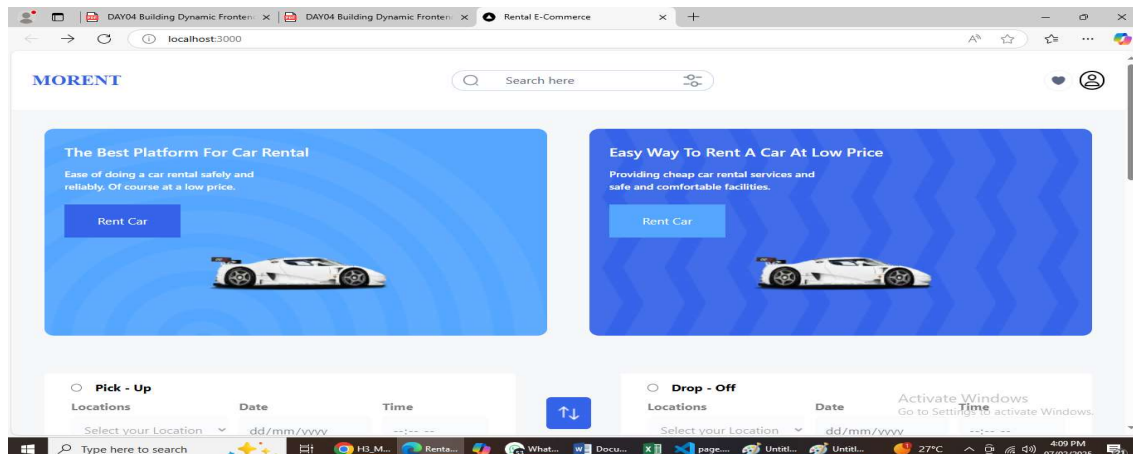
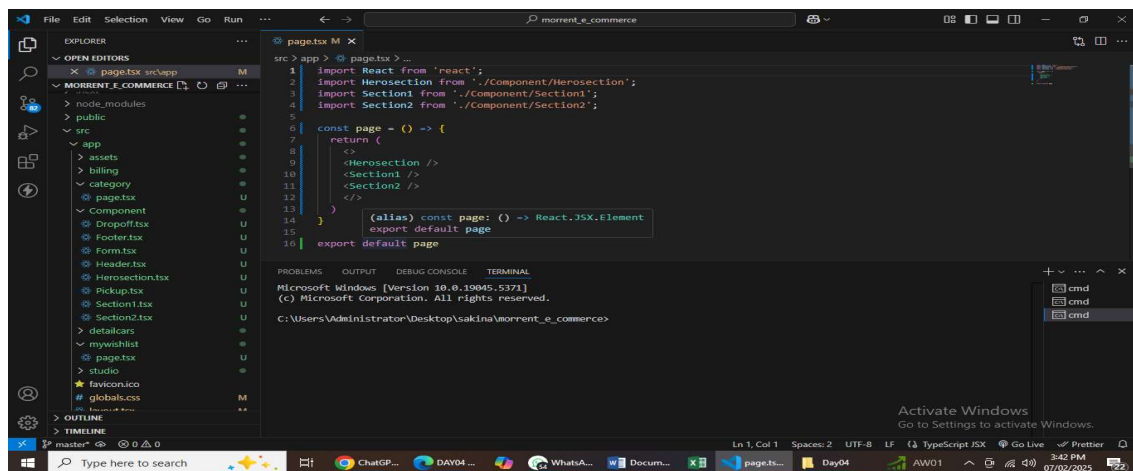
Car Listing Component

Car Detail Component

Category Component

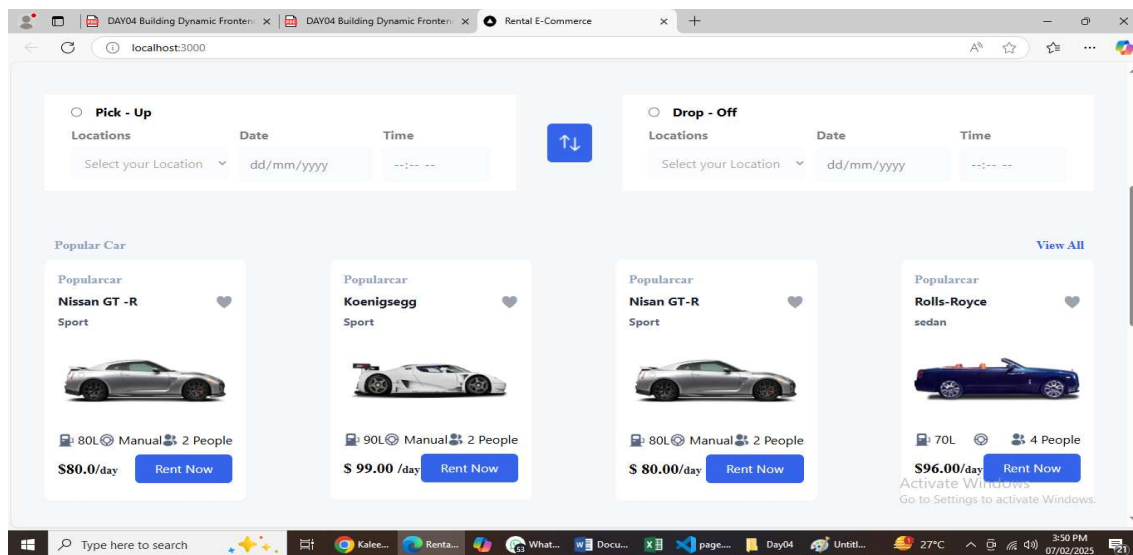
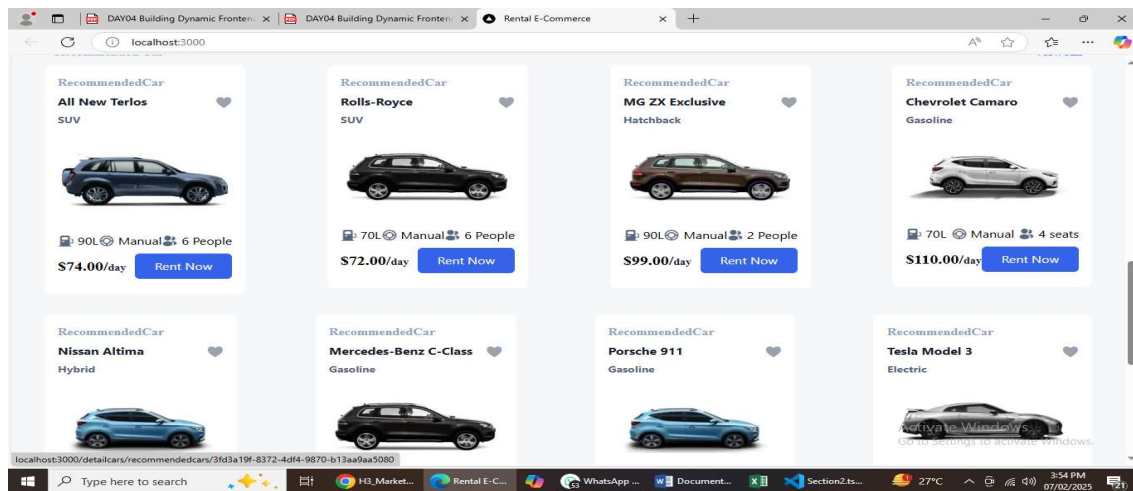
Wishlist Component

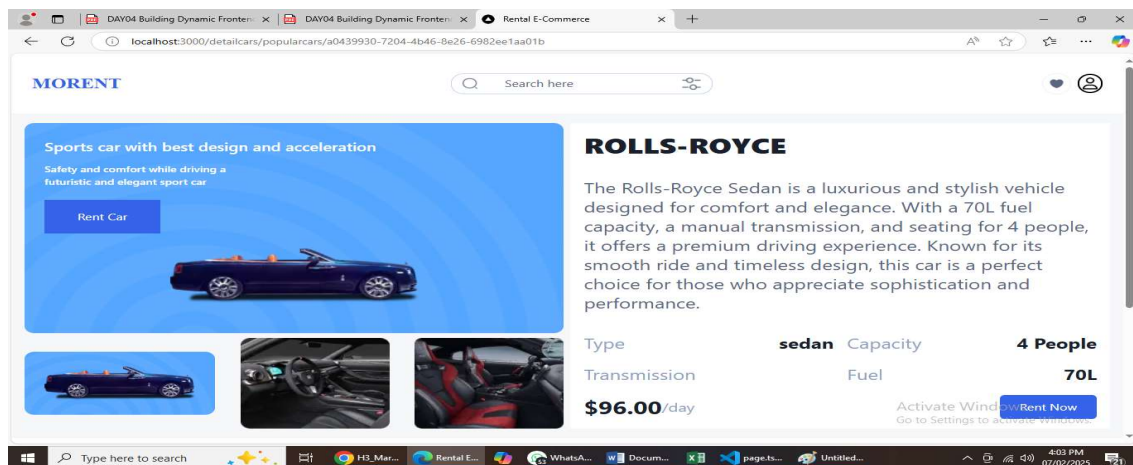
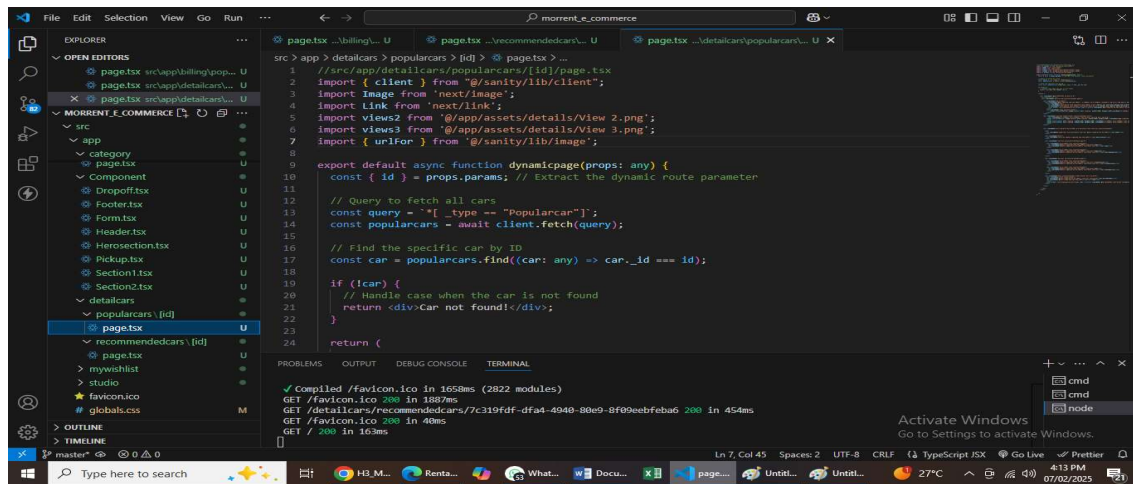
Admin Dashboard

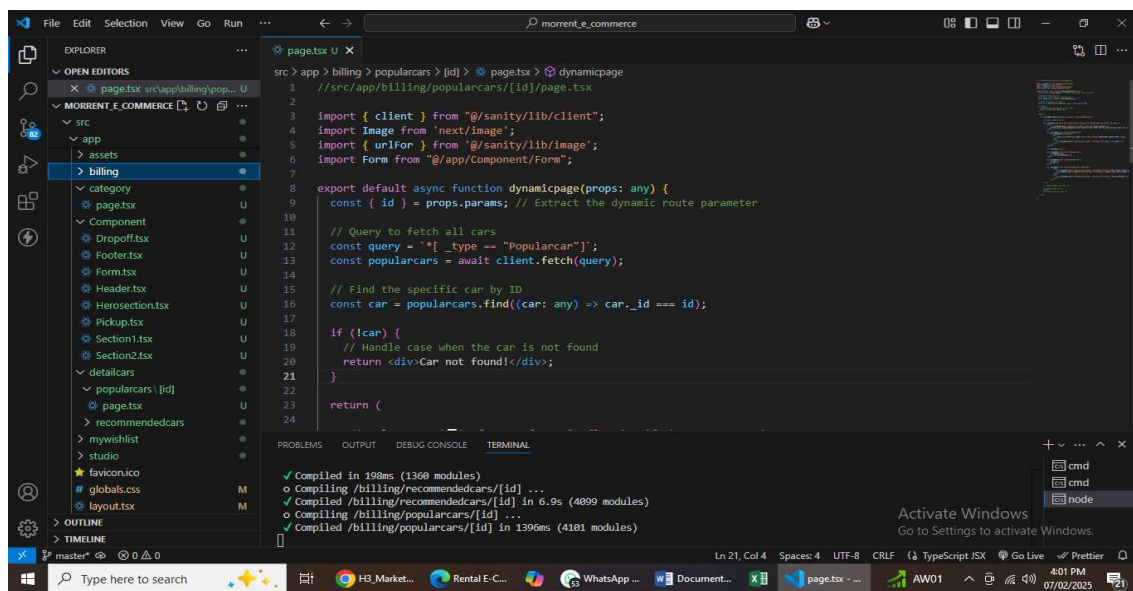
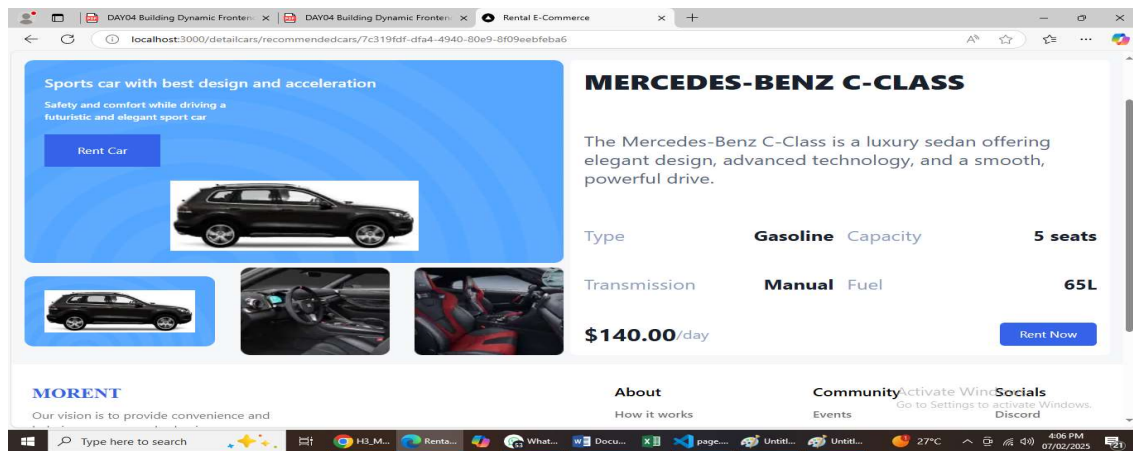


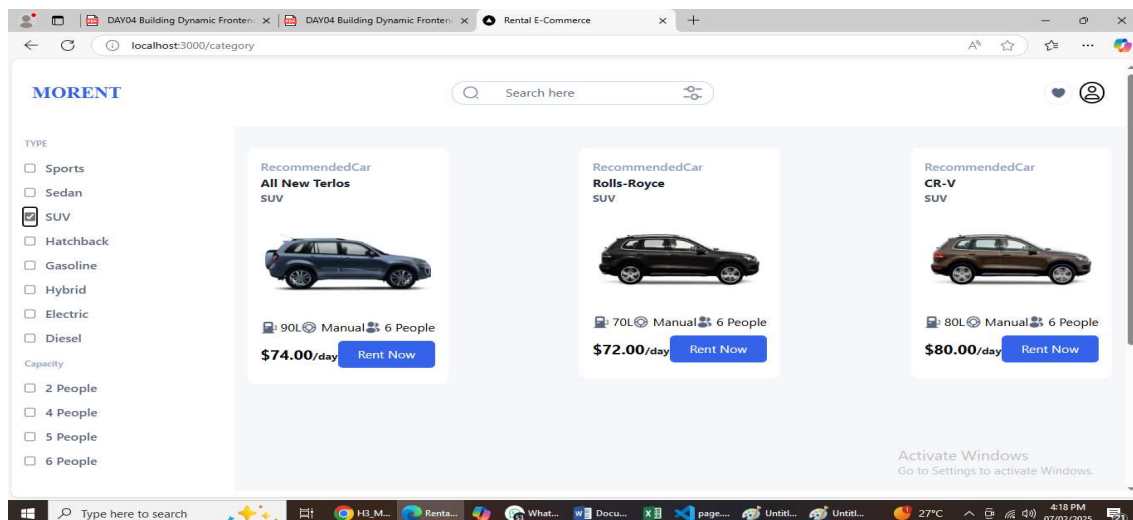
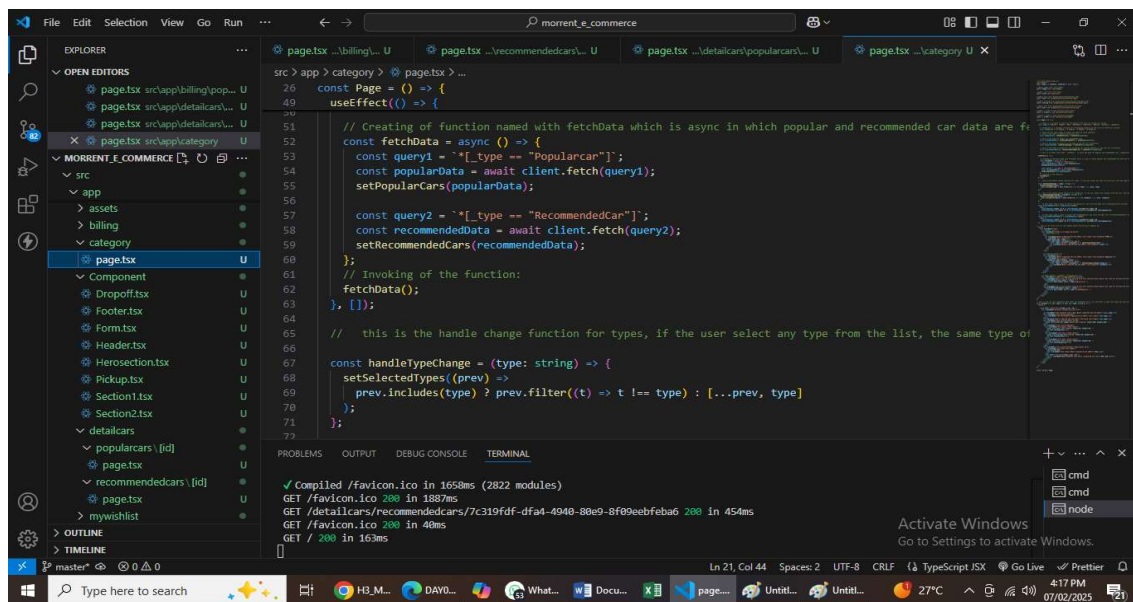
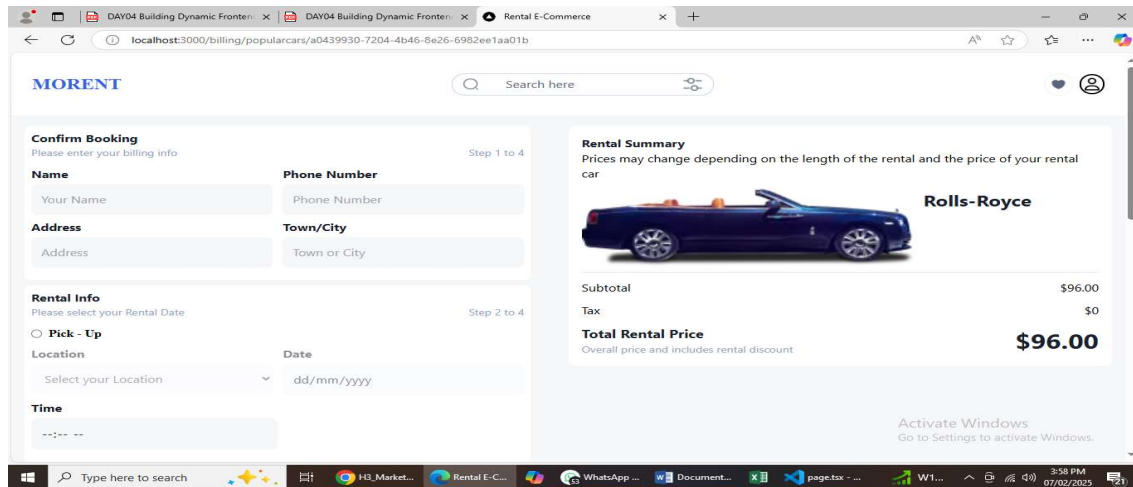
The screenshot shows the VS Code editor with the 'Section2.tsx' file open. The file contains the following code:

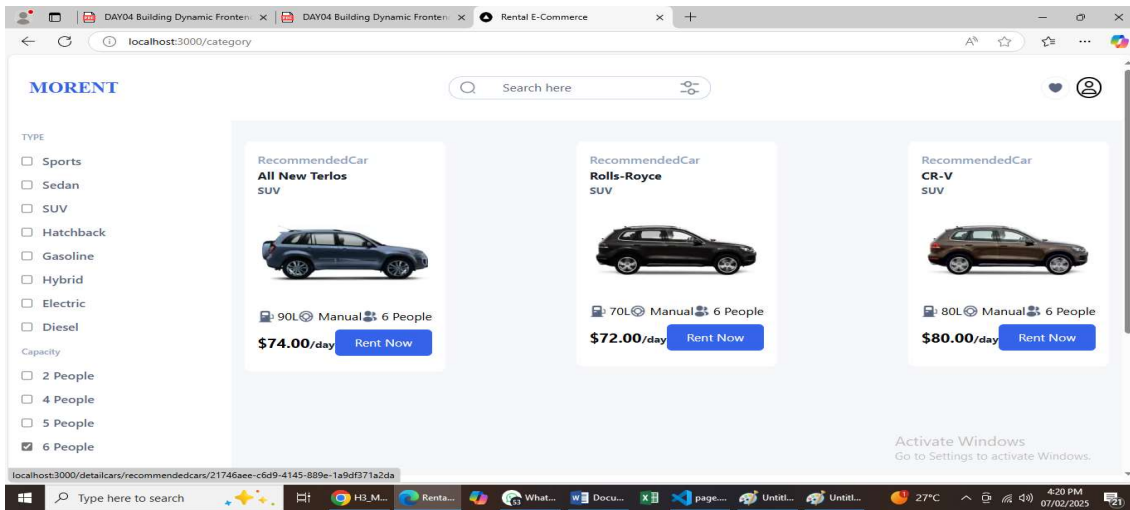
```
src > app > Component > Section2.tsx > ...
1 //src/app/Component/Section2.tsx
2
3 "use client"
4 import React, {useState, useEffect} from 'react';
5 import Image from 'next/image';
6 import Link from 'next/link';
7 import fuel from '@app/assets/section1/fuel.png';
8 import steering from '@app/assets/section1/steering_wheel.png';
9 import user from '@app/assets/section1/profile.png';
10 import { client } from '@sanity/lib/client';
11 import { urlFor } from '@sanity/lib/image';
12
13 const Section2 = () => {
14
15   const [wishlist, setWishlist] = useState<string[]>([]); // Product IDs
16   const [recommendedcars, setRecommendedCars] = useState<any[]>([]); // All car data
17   const [visiblecount, setVisibleCount] = useState(4); // Number of cars to show initially
18   const [isLoading, setIsLoading] = useState<boolean>(true); // Loading state for data fetch
19
20   // RecommendedCar
21   // Fetch popular cars data on component mount
22   useEffect(() => {
23     const fetchData = async () => {
24       try {
25
26         (node:14288) [DEP0040] DeprecationWarning: The 'punycode' module is deprecated. Please use a userland alternative instead.
27         (Use 'node --trace-deprecation ...' to show where the warning was created)
28         GET / 200 in 31651ms
29         ✓ Compiled in 1618ms (1360 modules)
30       }
31     }
32   }, []);
33 }
```











◆ Core Components

1 Car Listing Component 🚗

- ✓ Displays available rental cars in a **responsive grid layout**
- ✓ Key fields: **Car Name, Price, Image, Availability Status**

2 Car Detail Component 🔍

- ✓ Individual car detail pages with **dynamic routing**
- ✓ Includes detailed fields: **Car Description, Rental Price, Features, Availability**

3 Category Component 📁

- ✓ Shows car categories dynamically (SUVs, Sedans, Luxury, etc.)
- ✓ Enables filtering of cars based on categories

4 Search Bar 🔍

- ✓ Implements search functionality to find cars by **name, brand, or tags**

5 Booking & Checkout Component ☐

- ✓ Multi-step form for car rental booking
- ✓ Fields: **Pickup & Drop-off location, Date & Time, Payment Details (mock implementation)**

7 Wishlist Component 💖

- ✓ Enables users to save cars for future reference
- ✓ Uses **local storage or state management** for persistence

8 Reviews & Ratings Component ☆

- ✓ Allows users to **submit and view reviews** for rental cars
- ✓ Displays **average ratings** dynamically

9 Pagination Component

- ✓ Breaks down large car listings into **manageable pages**
- ✓ Includes **previous/next buttons or numbered pagination**

◆ Advanced Features

10 Filter Panel

- ✓ Provides **advanced filtering options**, including:
 - **Price range sliders**
 - **Car brand selection**
 - **Fuel type, transmission, and availability toggles**

11 Related Cars Component

- ✓ Suggests **similar or recommended cars** based on user interest

12 Notifications Component

- ✓ Displays real-time **alerts for bookings, promotions, or errors**

13 Multi-Language Support

- ✓ Language switcher for **multilingual user experience**

14 Order Tracking Component

- ✓ Provides real-time **updates on rental status**

15 Admin Dashboard

- ✓ Interface for managing **car listings, bookings, users, and promotions**
- ✓ Includes **business analytics and insights**

16 Discount & Promotions

- ✓ Allows admins to create and manage **discounts, coupon codes, and seasonal offers**

17 Social Media Sharing

- ✓ Enables users to **share rental deals on social media**

18 Bulk Upload

- ✓ Allows admins to **upload car data via CSV or Excel files**

19 AI-Based Car Recommendations

- ✓ Uses an **AI model to recommend cars** based on user preferences and past rentals

20 Subscription Management

- ✓ Allows users to subscribe for **monthly or long-term car rentals**