

Day 04 of Hakathon 03

Car Rental Website Documentation

Project Overview

This project is a dynamic car rental e-commerce website developed as part of **Hackathon 3 - Day 4**. The platform enables users to browse available cars and rent them directly. The website is built using Next.js, Tailwind CSS, and Sanity CMS for managing dynamic content. Key features include:

- Dynamic product listing using Sanity CMS.
- Individual car detail pages with dynamic routing.
- Responsive and user-friendly design.

Dynamic Features Implemented

1. Product Listing Page

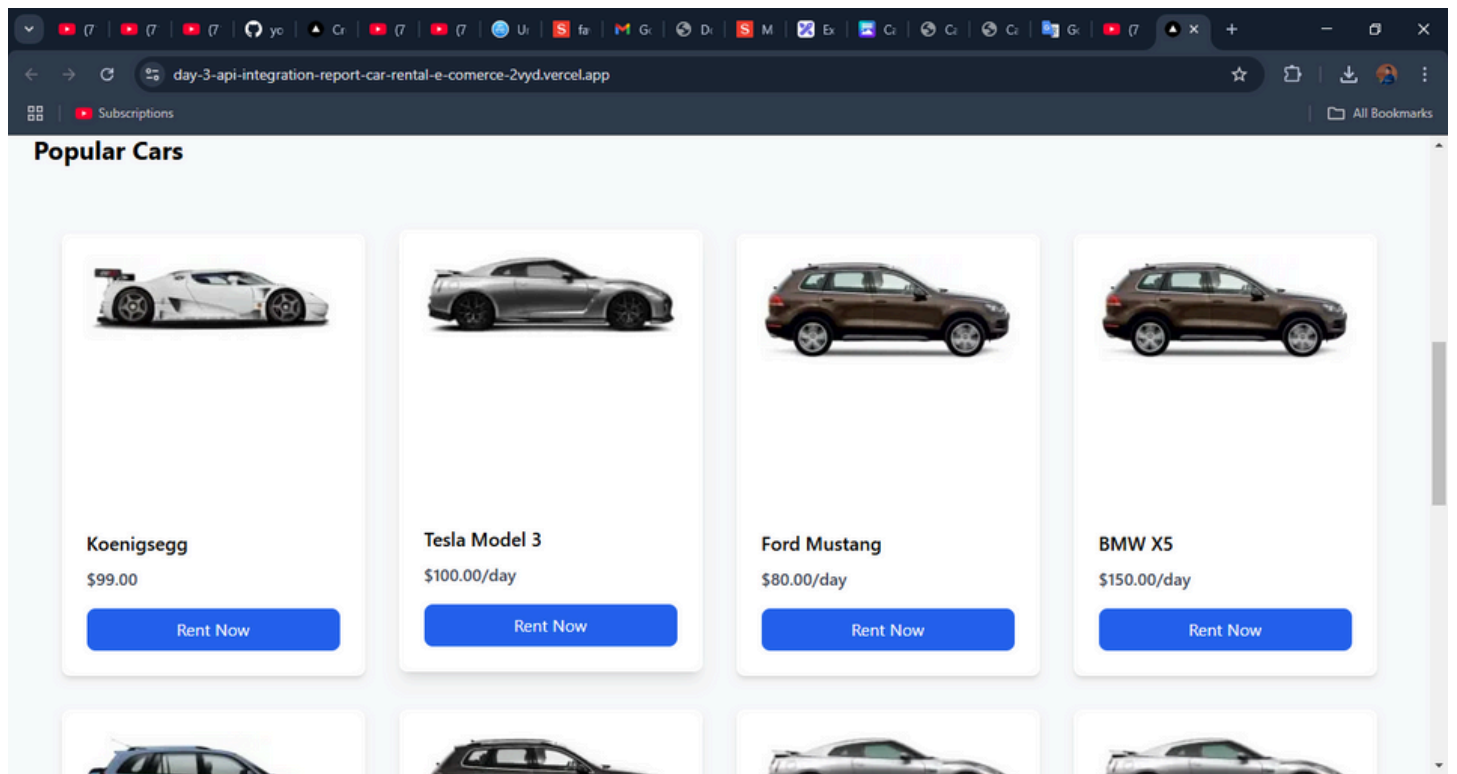
Description:

- Displays a list of cars dynamically fetched from Sanity CMS.
- Each car is displayed as a card with the following details:
 - Car title
 - Image
 - Price per day
- Includes a "Rent Now" button on each card.

Code Snippet:

```
File Edit Selection View Go Run ... day3-hakathon
page.tsx Hero.tsx X
src > components > Hero.tsx > ...
1 import { client } from "@sanity/lib/client";
2 import Head from "next/head";
3 import Image from "next/image";
4 import Link from "next/link";
5
6 export interface Car {
7   _id: string;
8   name: string;
9   pricePerDay: string;
10  imageUrl: string;
11 }
12
13 export default async function Home() {
14   const response: Car[] = await client.fetch(
15     `*[_type == "car"] [0..7]{
16       _id,
17       name,
18       pricePerDay,
19       "imageUrl": image.asset->url
20     }`
21   );
22   console.log("sanity response>>", response);
23
24   return (
25     <div>
26       <Head>
27         <title>Car Rental</title>
28         <meta name="description" content="Car rental website" />
29       </Head>
30
31       <main className="bg-gray-50 p-6">
32         { /* Hero Section */ }
33       </main>
34     </div>
35   );
36 }
Ln 157, Col 1 Spaces: 2 UTF-8 CRLF TypeScript JSX Go Live Prettier
```

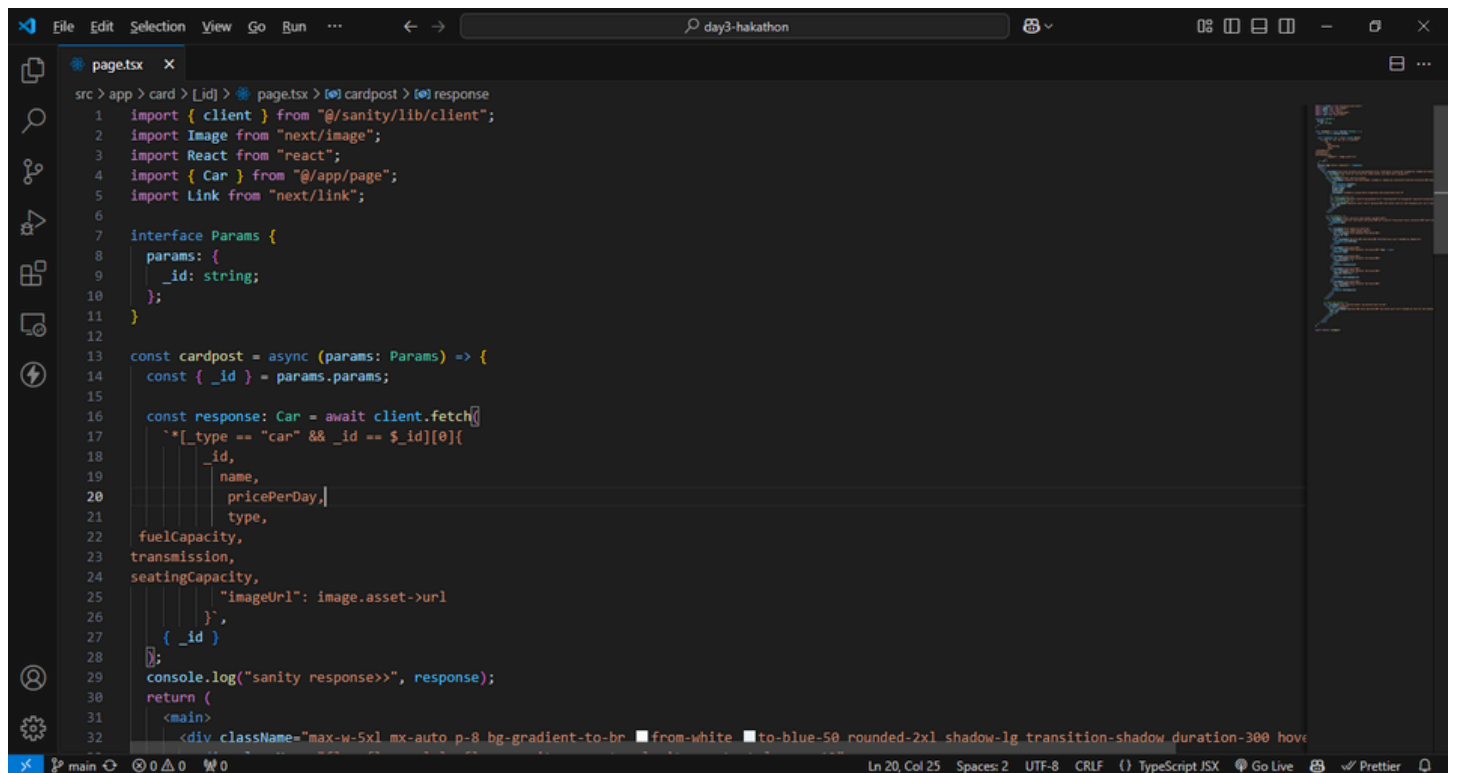
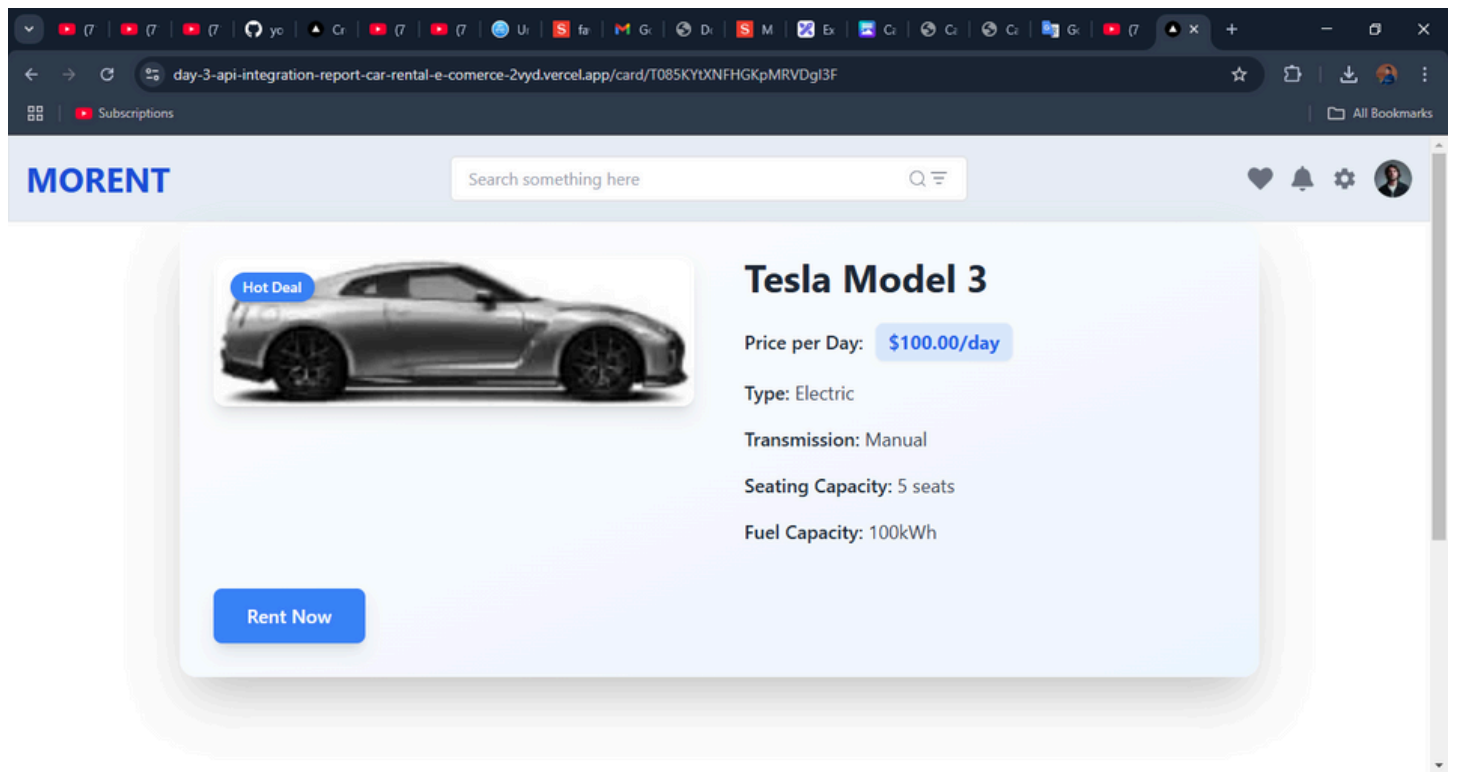
```
File Edit Selection View Go Run ... day3-hakathon
page.tsx Hero.tsx X
src > components > Hero.tsx > ...
13 export default async function Home() {
107
108   {
109     <div className="container mx-auto px-4 py-10">
110       <div className="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-4 gap-8">
111         {response.map((car) => (
112           <div
113             key={car._id}
114             className="bg-white shadow-md hover:shadow-lg transition-shadow transform hover:-translate-y-1 cursor-pointer p-6 rounded-lg"
115           >
116             <div className="w-full h-60 overflow-hidden rounded-lg mb-4 relative">
117               <Image
118                 src={car.imageUrl}
119                 alt={car.name}
120                 width={400}
121                 height={100}
122                 className="rounded-lg transition-transform duration-500 transform hover:scale-105"
123               />
124             </div>
125             <h2 className="text-lg font-semibold mb-2 truncate">
126               {car.name}
127             </h2>
128             <p className="text-gray-700 text-md font-medium mb-4">
129               {car.pricePerDay}
130             </p>
131             <Link href={` /card/${car._id}`}>
132               <button className="w-full bg-blue-600 hover:bg-blue-700 text-white py-2 px-4 rounded-lg transition-all duration-300 tr
133                 Rent Now
134               </button>
135             </Link>
136           </div>
137         ))}
138       </div>
139     </div>
140   )
141 }
Ln 157, Col 1 Spaces: 2 UTF-8 CRLF TypeScript JSX Go Live Prettier
```



2. Dynamic Routing for Product Details

- **Description:**
 - Clicking "Rent Now" on a car card navigates to a dynamic detail page.
 - The detail page shows the car's:
 - Title
 - Price per day
 - Description
 - Image
- **Dynamic Route:** `card/[_id]`

Code Snippet:



```
File Edit Selection View Go Run ... day3-hakathon
pagetsx x
src > app > card > [id] > pagetsx > [0] cardpost > [0] response
13 const cardpost = async (params: Params) => {
28   };
29   console.log("sanity response>>", response);
30   return (
31     <main>
32       <div className="max-w-5xl mx-auto p-8 bg-gradient-to-br from-white to-blue-50 rounded-2xl shadow-lg transition-shadow duration-300 hover:shadow-2xl">
33         <div className="flex flex-col lg:flex-row items-center lg:items-start lg:gap-12">
34           /* Can Image */
35           <div className="w-full lg:w-1/2 group">
36             <div className="relative overflow-hidden rounded-xl shadow-lg transition-transform duration-300 hover:scale-105">
37               <Image
38                 src={response.imageUrl}
39                 alt={response.name}
40                 height={600}
41                 width={600}
42                 className="rounded-xl group-hover:brightness-110 group-hover:blur-0"
43               />
44               /* Subtle Overlay */
45               <div className="absolute inset-0 bg-gradient-to-t from-black/20 to-transparent opacity-0 group-hover:opacity-100 transition-opacity duration-300">
46                 /* Floating Badge */
47                 <span className="absolute top-4 left-4 bg-blue-500 text-white text-sm font-semibold py-1 px-3 rounded-full shadow-md">
48                   Hot Deal
49                 </span>
50               </div>
51             </div>
52           </div>
53           /* Can Details */
54           <div className="w-full lg:w-1/2 text-center lg:text-left">
55             <h2 className="text-4xl font-bold text-gray-800 mt-6 lg:mt-0 transition-colors duration-300 hover:text-blue-600">
56               {response.name}
57             </h2>
58           </div>
59         </div>
60       </div>
61     </main>
62   );
63 }
64 export default cardpost;
```

```
File Edit Selection View Go Run ... day3-hakathon
pagetsx x
src > app > card > [id] > pagetsx > [0] cardpost > [0] response
59 const cardpost = async (params: Params) => {
60   <div className="mt-6 space-y-4 text-lg">
61     <p className="flex items-center gap-3">
62       <span className="font-semibold text-gray-800">
63         Price per Day:
64       </span>
65       <span className="bg-blue-100 text-blue-600 font-bold py-1 px-3 rounded-lg shadow-sm">
66         {response.pricePerDay}
67       </span>
68     </p>
69     <p className="text-gray-700">
70       <span className="font-semibold text-gray-800">Type: </span>
71       {response.type}
72     </p>
73     <p className="text-gray-700">
74       <span className="font-semibold text-gray-800">Transmission: {" "}
75       {response.transmission}
76     </p>
77     <p className="text-gray-700">
78       <span className="font-semibold text-gray-800">Seating Capacity: {" "}
79       {response.seatingCapacity}
80     </p>
81     <p className="text-gray-700">
82       <span className="font-semibold text-gray-800">Fuel Capacity: {" "}
83       {response.fuelCapacity}
84     </p>
85   </div>
86 }
87 export default cardpost;
```

The screenshot displays the Visual Studio Code interface with a file explorer on the left showing a project structure with folders like 'src' and files like 'page.tsx'. The main editor window shows the following code:

```
13 const cardpost = async (params: Params) => {
14   // ...
87   </span>
88   {response.fuelCapacity}
89 </p>
90 </div>
91 </div>
92 </div>
93
94 /* Rent Now Button */
95 <div className="flex justify-center lg:justify-start mt-10">
96   <Link href="/payment">
97     <button className="bg-blue-500 hover:bg-blue-600 text-white py-3 px-8 rounded-lg text-lg font-semibold shadow-lg transition-all">
98       Rent Now
99     </button>
100   </Link>
101 </div>
102 </div>
103 </main>
104 );
105 };
106
107 export default cardpost;
```

The status bar at the bottom indicates the current position is 'Ln 20, Col 25'.

```
1  export default {
2    name: 'car',
3    type: 'document',
4    title: 'Car',
5    fields: [
6      {
7        name: 'name',
8        type: 'string',
9        title: 'Car Name',
10     },
11     {
12       name: 'brand',
13       type: 'string',
14       title: 'Brand',
15       description: 'Brand of the car (e.g., Nissan, Tesla, etc.)',
16     },
17     {
18       name: 'type',
19       type: 'string',
20       title: 'Car Type',
21       description: 'Type of the car (e.g., Sport, Sedan, SUV, etc.)',
22     },
23     {
24       name: 'fuelCapacity',
25       type: 'string',
26       title: 'Fuel Capacity',
27       description: 'Fuel capacity or battery capacity (e.g., 90L, 100kWh)',
28     },
29     {
30       name: 'transmission',
31       type: 'string',
32       title: 'Transmission',
33       description: 'Type of transmission (e.g., Manual, Automatic)',
34     },
35     {
36       name: 'seatingCapacity',
37       type: 'string',
38       title: 'Seating Capacity',
39       description: 'Number of seats (e.g., 2 People, 4 seats)',
40     },
41     {
42       name: 'pricePerDay',
43       type: 'string',
44       title: 'Price Per Day',
45       description: 'Rental price per day',
46     },
47     {
48       name: 'originalPrice',
49       type: 'string',
50       title: 'Original Price',
51       description: 'Original price before discount (if applicable)',
52     },
53     {
54       name: 'tags',
55       type: 'array',
56       title: 'Tags',
57       of: [{ type: 'string' }],
58       options: {
59         layout: 'tags',
60       },
61     },
62   ],
63 }
```

```
61     description: 'Tags for categorization (e.g., popular, recommended)',
62   },
63   {
64     name: 'image',
65     type: 'image',
66     title: 'Car Image',
67     options: {
68       hotspot: true
69     }
70   }
71 ],
72 };
```

Best Practices Followed

1. **Modular Component Design:**
 - Each feature is broken into reusable components for scalability.
2. **Responsive Design:**
 - The website is mobile-friendly, ensuring a seamless experience across devices.
3. **Dynamic Content Management:**
 - Sanity CMS ensures easy updates to content without changing the code.

Best Practices Followed

1. **Modular Component Design:**
 - Each feature is broken into reusable components for scalability.
2. **Responsive Design:**
 - The website is fully responsive, ensuring a seamless experience across all devices, including desktops, tablets, and mobile phones.
3. **Dynamic Content Management:**
 - Sanity CMS ensures easy updates to content without changing the code.

Future Enhancements

1. Add a booking confirmation page with payment integration.
2. Implement advanced search and filters (e.g., by price range or car type).
3. Add user authentication for personalized experiences.
4. Include reviews and ratings for cars.