

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.

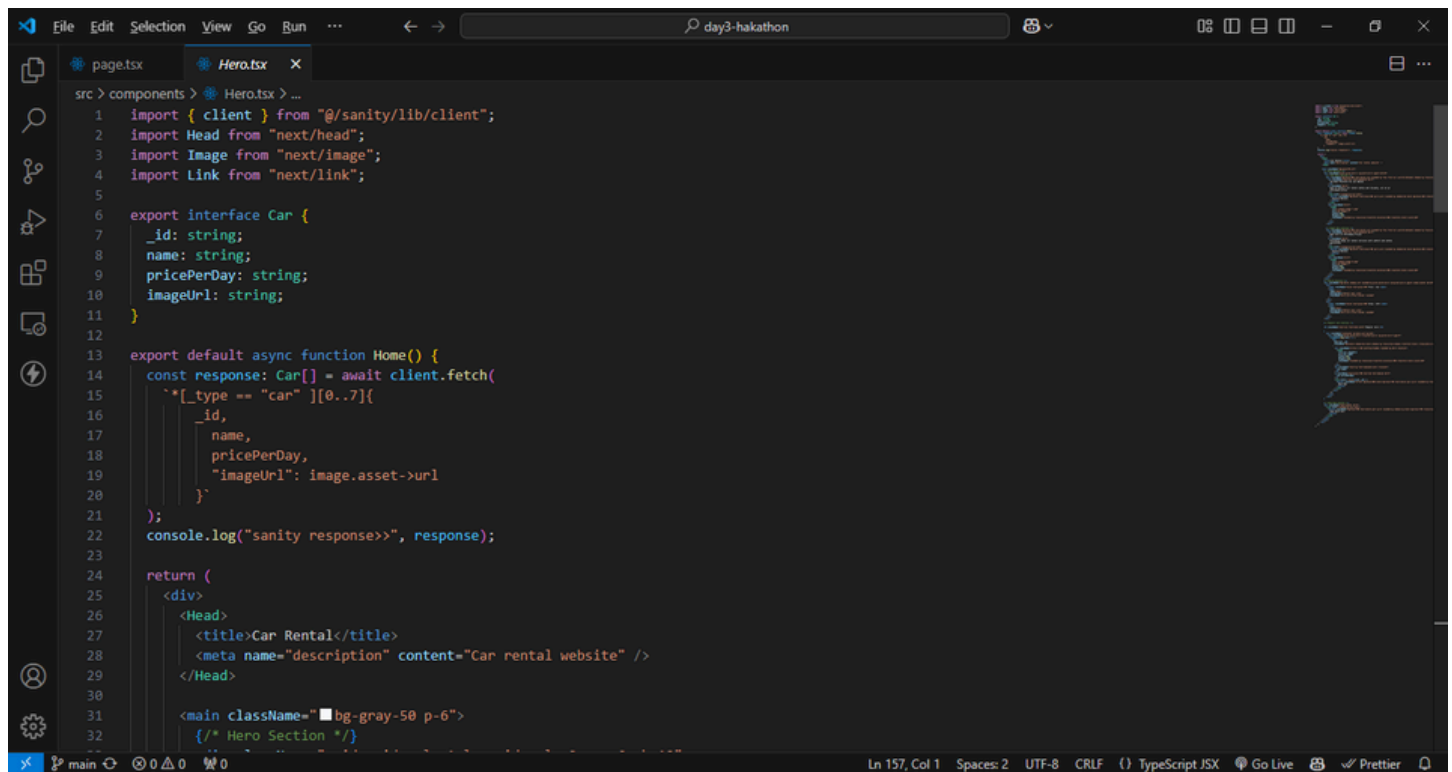
Dynamic Features Implemented

1. Product Listing Page

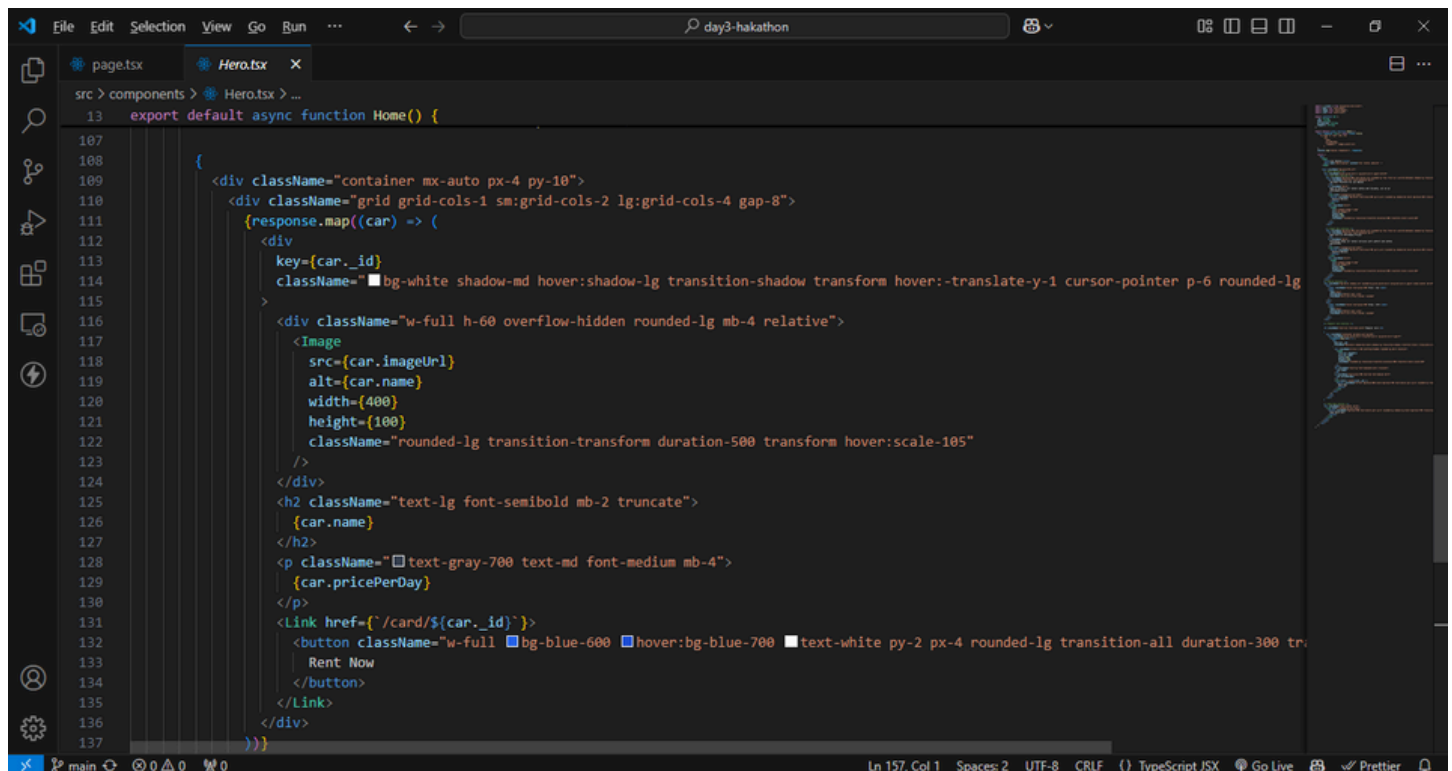
Description:

- 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:



```
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 */ }
```



```
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     )}
```

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:

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File Edit Selection View Go Run ... day3-hakathon
pagetsx x
src > app > card > [id] > pagetsx > [0] cardpost > [0] response
1 import { client } from "@sanity/lib/client";
2 import Image from "next/image";
3 import React from "react";
4 import { Car } from "@app/page";
5 import Link from "next/link";
6
7 interface Params {
8   params: {
9     _id: string;
10   };
11 }
12
13 const cardpost = async (params: Params) => {
14   const { _id } = params.params;
15
16   const response: Car = await client.fetch`
17     *[ _type == "car" && _id == $ _id ][0]{
18       _id,
19       name,
20       pricePerDay,
21       type,
22       fuelCapacity,
23       transmission,
24       seatingCapacity,
25       imageUrl: image.asset->url
26     }`,
27     { _id }
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">
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```


2. Use the Sanity client in Next.js to fetch this data.

Code Schema:

```
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.