Hackathon 5 - DAY 3 API Integration Report

Overview

This report outlines the steps taken to integrate an API with Sanity CMS and how the data was utilized in a Next.js application. The integration process includes setting up the Sanity schema, querying data using GROQ, and rendering data dynamically in Next.js components. Visual aids have been included to provide clarity.

1. API Integration with Sanity CMS

Step 1: Setting Up Sanity CMS

Sanity CMS was configured to serve as the backend for storing car rental data. The following schema was created to define the structure of car details:

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```

```
## Config X

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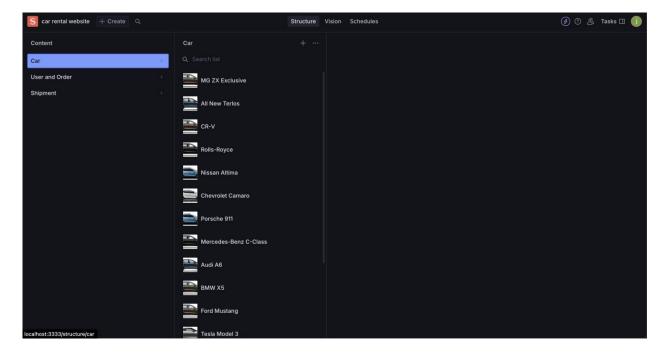
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for fields: |

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```

Step 2: Populating Data in Sanity Studio

The schema was used to populate car details in the Sanity Studio interface. Each document was assigned a unique slug, which serves as the identifier for querying.



Step 3: Fetching Data from Sanity API

Sanity's GROQ (Graph-Relational Object Queries) was used to fetch data. A query was written to retrieve car details based on the provided slug:

```
const query = `*[_type == "car"]{
  id,
  name,
    type,
    image{
    asset=>{url}
},
  fuelCapacity,
    transmission,
    seatingCapacity,
    pricePerDay,
    "slug": slug.current

}`;
  const data = await client.fetch(query);
  return data;
}
```

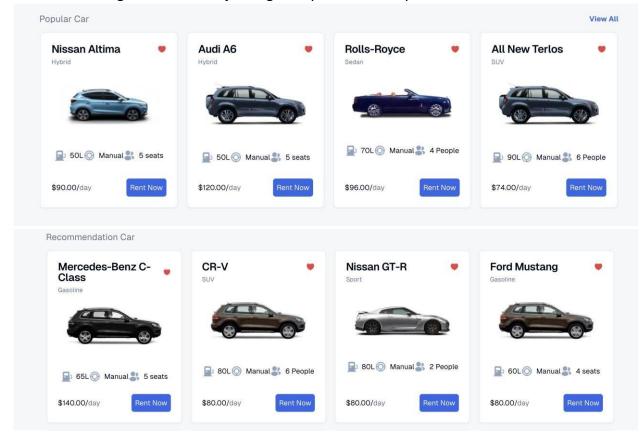
```
const query = `*[_type == "car"]{
   _id,
   name,
     type,
     slug,
     image{
     asset->{url}
},
   fuelCapacity,
     transmission,
     seatingCapacity,
     pricePerDay,

}`;
   const data = await client.fetch(query);
   return data;
}
```

2. Using the API in Next.js

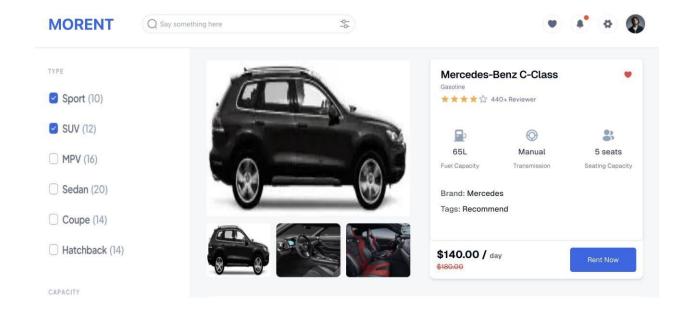
Step 1: Fetching Data in Next.js

The API was integrated into Next.js using Sanity's client library.



Step 2: Dynamic Routing in Next.js

The car details page was set up with a dynamic route



3. Diagram: Data Flow

Below is a visual representation of the data flow from Sanity CMS to the Next.js application:

