Day-03 API Integration Report

Introduction

Project Overview: Your project involves integrating a car rental API into a frontend application using Sanity CMS for managing car data. The goal is to upload car information, including images, dynamically using an API, and store them in Sanity for easy access and management.

API Integration

API Used: The data is fetched from an API endpoint that provides details about different cars. Here's the API URL:

https://sanity-nextjs-application.vercel.app/api/hackathon/template7

This API provides information such as:

- Car Name
- Brand
- Type
- Fuel Capacity
- Transmission
- Seating Capacity
- Price Per Day
- Original Price
- Tags
- Image URL

Fetching Data: The data is fetched using Axios and then iterated over to process each car's details. The relevant image for each car is uploaded to Sanity and referenced accordingly.

Code Snippet:
Below is the code used to fetch car data and upload images to Sanity:

You can add this code on

importData.mjs File:

```
const response = await
axios.get('https://sanity-nextjs-application.vercel.app/api/hackathon/template7');

const cars = response.data;


for (const car of cars) {
  let imageRef = null;
  if (car.image_url) {
    imageRef = await uploadImageToSanity(car.image_url);
  }


  const sanityCar = {
    _type: 'car',
    name: car.name,
    brand: car.brand || null,
    type: car.type,
    fuelCapacity: car.fuel_capacity,
    transmission: car.transmission,
    seatingCapacity: car.seating_capacity,
    pricePerDay: car.price_per_day,
    originalPrice: car.original_price || null,
    tags: car.tags || [],
    image: imageRef ? {
      _type: 'image',
      asset: {
        _type: 'reference',
        _ref: imageRef,
      },
    } : undefined,
  };
```

```
  const result = await client.create(sanityCar);
}
```


Sanity Schema

The schema for the "Car" document in Sanity has been designed as follows:

```
export default {
  name: 'car',
  type: 'document',
  title: 'Car',
  fields: [
    { name: 'name', type: 'string', title: 'Car Name' },
    { name: 'brand', type: 'string', title: 'Brand' },
    { name: 'type', type: 'string', title: 'Car Type' },
    { name: 'fuelCapacity', type: 'string', title: 'Fuel Capacity' },
    { name: 'transmission', type: 'string', title: 'Transmission' },
    { name: 'seatingCapacity', type: 'string', title: 'Seating Capacity' },
    { name: 'pricePerDay', type: 'string', title: 'Price Per Day' },
    { name: 'originalPrice', type: 'string', title: 'Original Price' },
    { name: 'tags', type: 'array', title: 'Tags', of: [{ type: 'string' }], options: { layout: 'tags' } },
    { name: 'image', type: 'image', title: 'Car Image', options: { hotspot: true } }
  ]
};
```

This schema allows for flexible content management, where the car's details can be edited and updated dynamically.

After importing data your sanity studio look like this Image:
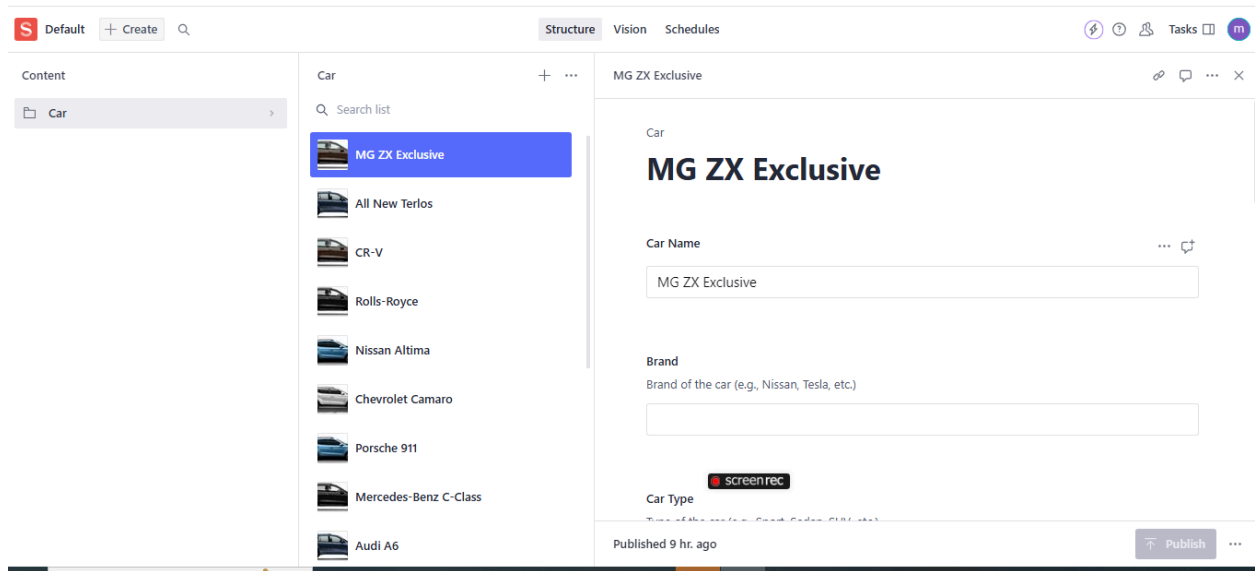
Frontend Page

MORENT

Search something here

The Best Platform for Car Rental

Ease of doing a car rental safely and reliably. Of course at a low price.

Rental car

Easy way to rent a car at a low price

Providing cheap car rental services and safe and comfortable facilities.

Rental car

Pickup ○ Location: New York
Date: Dec 10, 2024 Time: 10:00 AM

⇅

Drop Down ○ Location: New York
Date: Dec 10, 2024 Time: 10:00 AM

Popular Cars

Nissan GT-R
SUV
$80.00/day
80L · Manual · 2 People
Rent Now

Rolls-Royce
SUV
$96.00/day
70L · Manual · 4 People
Rent Now

Koenigsegg
SUV
$99.00/day
90L · Manual · 2 People
Rent Now

Nissan GT-R
SUV
$80.00/day
80L · Manual · 2 People
Rent Now

Recommended Cars

BMW X5
SUV
$150.00/day/day
70L · Manual · 7 seats
Rent Now

CR-V
SUV
$80.00/day
80L · Manual · 6 People
Rent Now

Porsche 911
SUV
$200.00/day/day
60L · Manual · 4 seats
Rent Now

Chevrolet Camaro
SUV
$110.00/day/day
70L · Manual · 4 seats
Rent Now

The frontend page displays the car details fetched from Sanity. Below is an example of what the page looks like:

- **Car Information**: The car's name, brand, type, fuel capacity, and other details are displayed.
- **Image**: The car's image is dynamically displayed using the reference from Sanity.

Dynamic Love page Image

Sports car with the best design and acceleration

Safety and comfort while driving a futuristic and elegant sports car

Rent Now

Ford Mustang ❤️

★★★★☆ 440+ Reviewer

Ford Mustang has become the embodiment of Ford Mustango utstanding performance, inspired by the most unforgiving proving ground, the "Gasoline track".

Type Car: Gasoline   **Capacity:** 4 seats
Steering: Manual   **Gasoline:** 60L

$80.00/day   Rent Now
/ days

Pickup ○ **Location:** New York
Date: Dec 10, 2024
Time: 10:00 AM

⇅

Drop Down ○ **Location:** New York
Date: Dec 10, 2024
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Popular Cars

Nissan GT-R
suv
$80.00/day
80L Manual 2 People
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Rolls-Royce
suv
$96.00/day
70L Manual 4 People
Rent Now

Koenigsegg
suv
$99.00/day
90L Manual 2 People
Rent Now

Nissan GT-R
suv
$80.00/day
80L Manual 2 People
Rent Now

Recommended Cars

BMW X5
suv
$150.00/day/day
70L Manual 7 seats
Rent Now

CR-V
suv
$80.00/day
80L Manual 6 People
Rent Now

Porsche 911
suv
$200.00/day/day
60L Manual 4 seats
Rent Now

Chevrolet Camaro
suv
$110.00/day/day
70L Manual 4 seats
Rent Now

Rolls-Royce
suv
$72.00/day
70L Manual 6 People
Rent Now

MG ZX Exclusive
suv
$99.00/day
90L Manual 2 People
Rent Now

Tesla Model 3
suv
$100.00/day/day
100kWh Manual 5 seats
Rent Now

Ford Mustang
suv
$80.00/day/day
60L Manual 4 seats
Rent Now

Conclusion

The integration of the car rental API into the frontend application via Sanity is successfully completed. The API dynamically fetches car data and images, and Sanity is used to store and manage the data. This integration allows for seamless management of car information and enhances the user experience by providing a flexible and interactive frontend.