# Hackathon

Day 3 - Report

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# Day-3

# **API Integration Report**

# Introduction

## **Project Overview:**

In this project, I have successfully integrated a car rental API with a frontend application, leveraging Sanity CMS to streamline car rental management. By dynamically uploading car details, including specifications like capacity, transmission, and fuel type, via the API, I've ensured seamless storage and accessibility within Sanity. This integration not only optimizes data handling but also powers a responsive and intuitive frontend, complete with advanced filtering, sorting, and categorization capabilities to enhance the user experience.



## API Used:

The information is sourced from a specialized API endpoint designed to deliver detailed data on a wide range of cars. The API URL is as follows:

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

This API offers comprehensive details, including:

- Car's ID
- Car's Name
- Car's Rent
- · Car's Image
- Car's Category
- Car's Fuel Capacity
- · Car's Seating Capacity
- Car's Transmission



I referred to Sir Ali Jawwad's guidance blog for migrating data from an API to Sanity. Here's the link to the blog:

https://alijawwad001.atlassian.net/wiki/external/OWVkZTc1NjExMjU1NDljNmFkMGJhZTUxYmVmMWNmMzc



# **API Calls SnapShot:**

CarouselSection.tsx:

```
const [isError, setIsError] = useState('')
const [carouselCardData, setCarouselCardData] = useState([])

useEffect(() => {
    const fetchingCars = async () => {
        try {
            const data = await client.fetch('*[_type == "car" && "popular" in tags]')
            setCarouselCardData(data)
        } catch (err: any) {
            console.log("error: ", err);
            setIsError(err.message)
        }
    }
}

fetchingCars()
}

fetchingCars()

}, [])
```

RecommandedCars.tsx

#### app/car-detail/[id]/page.tsx:

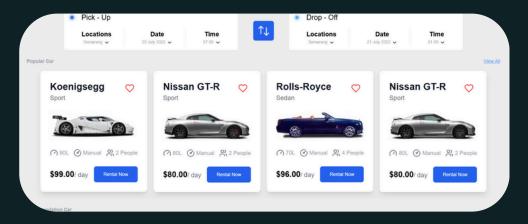
#### app/category/page.tsx:



# **Frontend Page:**

The frontend page displays the car rental details fetched from Sanity CMS. Below is an example of how the page appears:

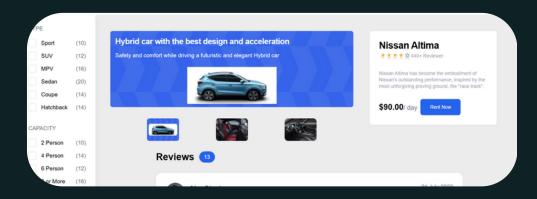
In this reference, we can clearly see the car's image, name, rent, and other essential details like fuel capacity, seating capacity, and transmission type.



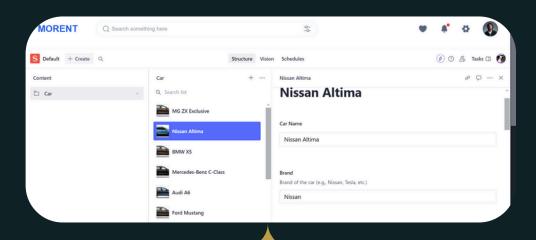
# **Daynamic Page:**

The frontend page displays the car rental details fetched from Sanity CMS. Below is an example of how the page appears:

In this reference, we can clearly see the car's image, name, rent, and other essential details like fuel capacity, seating capacity, and transmission type.



# Populated Sanity CMS Fields:



# **Code Snippets:**

**API Integration:** 



## **Migration Script:**

```
async function importData() {
    console.log("Fetching car data from API...");
    // API endpoint containing car data
const response = await axios.get(
    const cars = response.data:
    console.log(`Fetched ${cars.length} cars`);
     let imageRef = null;
      if (car.image_url) {
        imageRef = await uploadImageToSanity(car.image_url);
       _id: `car-$(car.id)`, // Prefix the ID to ensure validity _type: "car",
        type: car.type,
fuelCapacity: car.fuel_capacity,
        seatingCapacity: car.seating_capacity,
        pricePerDay: car.price_per_day,
originalPrice: car.original_price || null,
        image: imageRef
            asset: {
    _type: "reference",
               _ref: imageRef,
      console.log('Uploading car object to Sanity:', sanityCar);
      console.log(' ☑ Data import completed!');
 } catch (error) {
  console.error('X Error importing data:', error);
```

# **Conclusion:**

This project successfully demonstrates the integration of an API with Sanity CMS for managing car rental data. The process involved fetching data from the API, uploading images, and displaying the details dynamically on the frontend. This streamlined approach ensures data accuracy, enhances the user interface, and leverages the robust features of Sanity CMS to meet project requirements.