# Day 3 – API Integration Report for

### "Morent Car Rentals"

### **Objective:**

The objective of this report is to document the process of integrating APIs and migrating data into Sanity CMS for the "Morent Car Rentals" project. This includes schema adjustments, data migration steps, and API integration into the frontend using Next.js.

#### **API Integration Process:**

The API provided the following endpoints:

#### **API URL:**

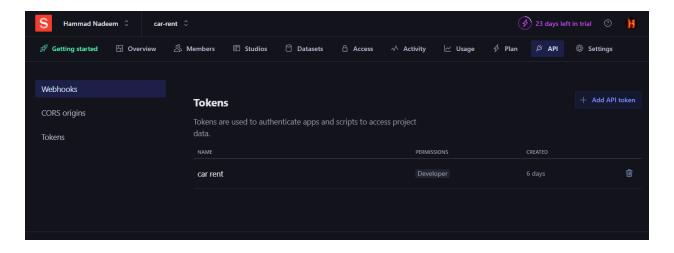
https://sanity-nextjs-application.vercel.app/api/hackathon/template7

```
const fetchData = await fetch(
   "https://sanity-nextjs-application.vercel.app/api/hackathon/template7"
);
const response = await fetchData.json();
```

#### **Console Output**

#### Migrating Data to Sanity CMS:

Step 1: Generate Sanity API Token.



Step 2: Create Car Schema.

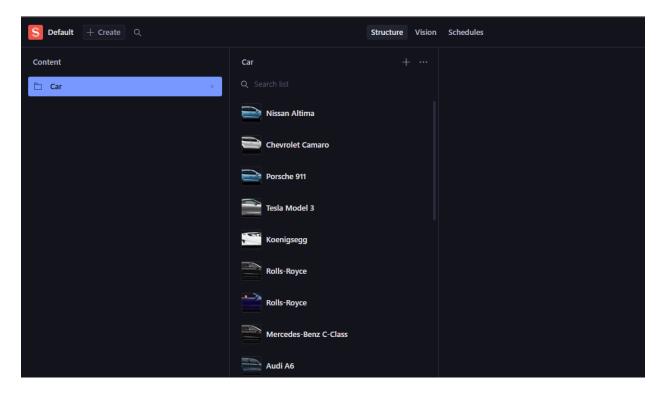
```
name: "car",
type: "document",
title: "Car",
fields: [
       name: "name",
type: "string",
title: "Car Name",
       name: "slug",
type: "slug",
title: "slug",
        options: {
  source: "name",
       name: "brand",
type: "string",
title: "Brand",
description: "Brand of the car (e.g., Nissan, Tesla, etc.)",
       name: "type",
type: "string",
title: "Car Type",
description: "Type of the car (e.g., Sport, Sedan, SUV, etc.)",
        name: "fuelCapacity",
type: "string",
title: "Fuel Capacity",
description: "Fuel capacity or battery capacity (e.g., 90L, 100kWh)",
       name: "transmission",
type: "string",
title: "Transmission",
description: "Type of transmission (e.g., Manual, Automatic)",
       name: "seatingCapacity",
type: "string",
title: "Seating Capacity",
description: "Number of seats (e.g., 2 People, 4 seats)",
       name: "pricePerDay",
type: "string",
title: "Price Per Day",
description: "Rental price per day",
       name: "originalPrice",
type: "string",
title: "Original Price",
description: "Original price before discount (if applicable)",
       name: "tags",
type: "array",
title: "Tags",
of: [{ type: "string" }],
        options: {
   layout: "tags",
        description: "Tags for categorization (e.g., popular, recommended)",
       name: "image",
type: "image",
title: "Car Image",
        options: {
  hotspot: true,
```

Step 3: This code script used to fetch data from an external API and upload into sanity.

```
1 import { createClient } from '@sanity/client';
2 import axios from 'axios';
3 import dotenv from 'dotenv';
4 import { fileURLToPath } from 'url';
7 // Load environment variables from .env.local
8 const _filename = fileURLTOPath(import.meta.url);
9 const _dirname = path.dirname(_filename);
10 dotenv.config({ path: path.resolve(_dirname, '../
    const client = createClient({
   projectId: process.env.NEXT_PUBLIC_SANITY_PROJECT_ID,
   dataset: process.env.NEXT_PUBLIC_SANITY_DATASET,
   useCdn: false,
       token: process.env.SANITY_API_TOKEN,
         apiVersion: '2021-08-31'
21 async function uploadImageToSanity(imageUrl) {
           cry {
  console.log('Uploading image: ${imageUrl}');
  const response = await axios.get(imageUrl, { responseType: 'arraybuffer' });
  const buffer = Buffer.from(response.data);
  const asset = await client.assets.upload('image', buffer, {
    filename: imageUrl.split('/').pop()
}

        return asset. id;
} catch (error) {
console.error('Failed to upload image:', imageUrl, error);
         try {
  console.log('Fetching car data from API...');
             // API endpoint containing car data
const response = await axios.get('https://sanity-nextjs-application.vercel.app/api/hackathon/template7');
const cars = response.data;
             console.log(`Fetched ${cars.length} cars`);
             for (const car of cars) {
  console.log(`Processing car: ${car.name}`);
                let imageRef = null;
if (car.image_url) {
                     imageRef = await uploadImageToSanity(car.image_url);
                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,
                   pricePerDay: car.price_per_day,
originalPrice: car.original_price || null,
tags: car.tags || [],
image: imageRef ? {
   _type: 'image',
   asset: {
    _type: 'reference',
    _ref: imageRef,
}.
                 console.log('Uploading car to Sanity:', sanityCar.name);
const result = await client.create(sanityCar);
console.log('Car uploaded successfully: ${result._id}');
        } catch (error) {
  console.error('Error importing data:', error);
86 importData();
```

### Sanity Dashboard Screenshot



## **Frontend Integration**

Rendering Data on Frontend

```
1 export const allCars = groq`*[_type == "car"]`
```

```
1 // fetch data from Sanity
2 const [car, setCar] = useState<Cars[]>([]);
3 useEffect(() => {
4    async function getData() {
5       const fetchData: Cars[] = await client.fetch(al lCars);
6       setCar(fetchData);
7    }
8    getData();
9 }, []);
10
```

#### Screenshot of the data listing page.

