# **Marketplace Builder Hackathon 2025**

### **Day 3 : API Integration and Data Migration**

This document outlines the steps taken to integrate the Template 7 API into the Sanity CMS project and the process of migrating data from the Template 7 API into Sanity. The purpose of this guide is to provide the steps and prerequisites to achieve API integration and Data migration from external API.

## **Prerequisites**

- Access to the API
- Set up Sanity project and configure it.
- Install Node.js on the development machine.
- Know about the basic of Sanity CLI and API.

### **API Overview**

Template 7 API provides data for Cars

#### **Key Endpoints:**

Endpoint	Method	Response
/template7	GET	All cars data
/template7/:id	GET	Specific car data

## <u>Integration Steps</u>

#### Step 1: Correct Sanity Schema for the API Data

Corrected previous schema in Sanity to match the structure of the Template 7 API data.

import { defineField, defineType } from "sanity";`

 $\overline{\text{export const car}} = \text{defineType}(\{$ 

```
name: 'car',
type: 'document',
title: 'Car',
fields: [
defineField({
 name: 'name',
type: 'string',
 title: 'Car Name',
}),
defineField({
 name: 'type',
type: 'string',
 title: 'Car Type',
description: 'Type of the car (e.g., Sport, Sedan, SUV, etc.)',
}),
  defineField({
 name: 'fuelCapacity',
type: 'string',
title: 'Fuel Capacity',
   description: 'Fuel capacity or battery capacity (e.g., 90L, 100kWh)',
}),
 defineField({
 name: 'transmission',
type: 'string',
 title: 'Transmission',
   description: 'Type of transmission (e.g., Manual, Automatic)',
}),
```

```
defineField({
 name: 'seatingCapacity',
type: 'string',
 title: 'Seating Capacity',
  description: 'Number of seats (e.g., 2 People, 4 seats)',
}),
defineField({
 name: 'pricePerDay',
 type: 'string',
title: 'Price Per Day',
 description: 'Rental price per day',
}),
 defineField({
name: 'brand',
type: 'string',
title: 'Brand',
  description: 'Brand of the car (e.g., Nissan, Tesla, etc.)',
}),
defineField({
 name: 'tags',
type: 'array',
title: 'Tags',
 of: [{ type: 'string' }],
 options: {
layout: 'tags',
   description: 'Tags for categorization (e.g., popular, recommended)',
```

```
}),
  defineField({
   name: 'originalPrice',
  type: 'string',
  title: 'Original Price',
    description: 'Original price before discount (if applicable)',
 }),
  defineField({
  name: 'image',
  type: 'image',
 title: 'Car Image',
 options: {
 hotspot: true
}),
});
```

#### Step 2: Write a Migration Script

Use the Sanity client to import data fetched from the Template 7 API into Sanity.

```
import { createClient } from '@sanity/client';
import axios from 'axios';
import dotenv from 'dotenv';
import { fileURLToPath } from 'url';
import path from 'path';

const __filename = fileURLToPath(import.meta.url);

const __dirname = path.dirname(__filename);

dotenv.config({ path: path.resolve(__dirname, '../.env.local') });
```

```
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: '2025-01-08'
});
async function uploadImageToSanity(imageUrl) {
try {
  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()
});
  console.log(`Image uploaded successfully: ${asset._id}`);
 return asset._id;
} catch (error) {
 console.error('Failed to upload image:', imageUrl, error);
return null;
async function importData() {
try {
  console.log('Fetching car data from API...');
 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);
 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,
};
 console.log('Uploading car to Sanity:', sanityCar.name);
```

const result = await client.create(sanityCar);

console.log(`Car uploaded successfully: \${result.\_id}`);

}

console.log('Data import completed successfully!');
} catch (error) {

console.error('Error importing data:', error);
}

## **Snippets of Work**

importData();

### **Imported Data to Sanity:**

