

Day 3 - API Integration Report (EliteRide Rentals)

Objective

This document provides a detailed report on integrating API data and migrating it into Sanity CMS to build a functional backend for a car rental e-commerce platform. The data was provided by **Sir Asharib Ali** and **Sir Ahmed Raza Shaikh** as part of Template 7. The report covers the API integration process, schema adjustments, migration steps, an frontend implementation to display the data.

API Integration Process

1. API Details

The API provided car data, including attributes such as

- name
- brand
- type
- fuelCapacity
- transmission
- seatingCapacity
- pricePerDay
- originalPrice
- tags
- image

2. Utility Functions for API Calls

A utility function was created to fetch data from the API and handle errors gracefully.

Sanity Schema

To ensure compatibility with the provided API data, the following schema adjustments were made:

```
export default {
  name: 'car',
  type: 'document',
  title: 'Car',
  fields: [
    { name: 'name', type: 'string', title: 'Car 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 } }
  ]
};
```

Frontend Display

1. Fetching Data from Sanity

A function was implemented to fetch migrated data from Sanity CMS:

```
import { client } from "@sanity/lib/client";
import Image from "next/image";

export default async function Home() {
  const data = await client.fetch(`*[_type == "car"] {
    name,
    brand,
    type,
    fuelCapacity,
    transmission,
    seatingCapacity,
    pricePerDay,
    originalPrice,
    tags,
    "imageUrl": image.asset->url
  }`);
}
```

Conclusion

This exercise provided hands-on experience in API integration, data migration, and schema validation. The result is a functional car rental e-commerce platform with a scalable backend powered by Sanity CMS and a responsive frontend built using Next.js.