Day 3 -API Integration Report – [Rental E-commerce Website] Morent

API INTEGRATION

To successfully integrate the API for the Rental Car System, follow these key steps:

- Connect the frontend with the backend to enable dynamic data retrieval.
- Use Sanity CMS as the backend to store and manage car rental data.
- * Retrieve car data via API and display it dynamically.
- Implement sorting for better user experience
- Ensure responsiveness and error handling.

Procedure

Step 1 Installing Sanity Studio

Create a new NEXT.JS Project with sanity or integrate a new sanity project into a new existing NEXT.JS project

Step 2 Setting Environment Variables

- 1. Created a .env.local file at the root of the project.
- 2. Added the following environment variables:
- a. NEXT_PUBLIC_SANITY_PROJECT_ID: Your Sanity project ID. b. NEXT_PUBLIC_SANITY_DATASET: Dataset name (e.g., production).
- c. SANITY API TOKEN: Token for API authentication.

Step 3 Configuration For Data Fetching

- Configure Sanity, by defining schema, types and other settings.
- Define Car Data Types for the project
- Create a migration script to connect with Sanity CMS
- Update package.json
- Execute the script with npm commands

```
File Edit Selection View Go Run ··· 

Normal Melcome

TS indexts U X

TS car.ts U

JS importTemplate7Data.mjs U

TS structure.ts

sanity > schemaTypes > TS indexts > ...

import { type SchemaTypeDefinition } from 'sanity'

import car from './car'

export const schema: { types: SchemaTypeDefinition[] } = {

types: [car],

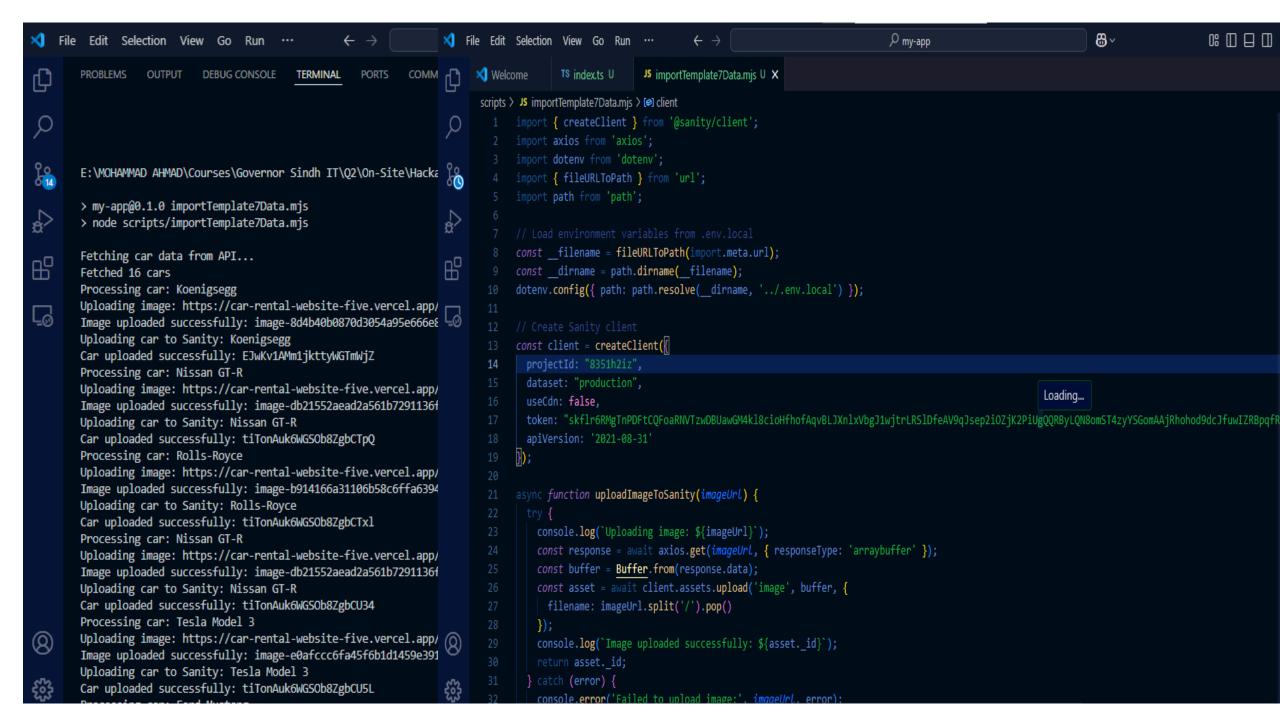
}

7
```

```
File Edit Selection View Go Run ...
                                                                                  TS car.ts U X JS importTemplate7Data.mjs U

★ Welcome

                                                                                TS structure.ts U
                  TS index.ts U
  sanity > schemaTypes > TS car.ts > [∅] default
         export default {
             name: 'car',
             title: 'Car',
                  name: 'name',
                 type: 'string',
                 title: 'Car Name',
                  name: 'brand',
                 type: 'string',
                 title: 'Brand',
                 description: 'Brand of the car (e.g., Nissan, Tesla, etc.)',
                 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',
```



DATA SUCCESSFULLY MOUNTED

