DAY 3 - API INTEGRATION REPORT - FURNITURE MARKETPLACE

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1. Introduction

This report outlines the work completed on Day 3 of the hackathon for the **Furniture Marketplace** project. The main objective of this phase was to integrate the Sanity CMS API for migrating product data, as well as to adjust the schema to organize the product information. The process includes setting up the API connection, creating the schema for the product page, and running the data migration script to populate the local database with product data.

2. Sanity API Integration Process

The process of integrating the Sanity API was carried out to connect the Sanity CMS with the local project and facilitate the seamless migration of product data. The key steps are outlined below:

API Setup

- The **Product ID** and **API Token** were obtained from the Sanity CMS.
- These credentials were stored securely in environment variables to ensure confidentiality and security during the API connection.

Schema Configuration

To manage the product data efficiently, a single schema file was created:

1. **product.ts** – This schema file is designed to manage product-specific data such as product name, description, price, and images.

The schema ensures that product data is structured properly for easy querying and retrieval.

3. Data Migration

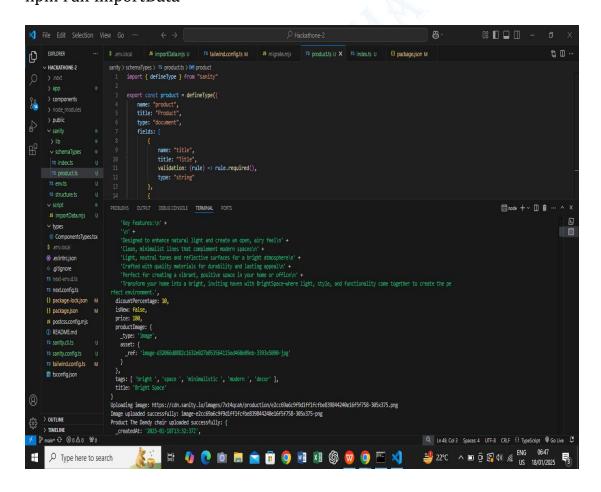
The goal of the data migration was to import product data from Sanity CMS to the local application. Below are the steps taken to ensure the migration was completed successfully:

Script Creation

A folder named scripts was created at the root of the project directory to house the migration script. The script, named **importData.mjs**, was responsible for automating the process of importing product data into the local database.

Migration Execution

The data migration was triggered using the following terminal command: npm run importData

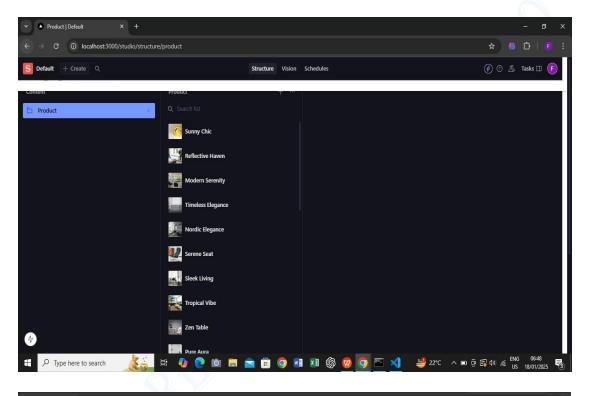


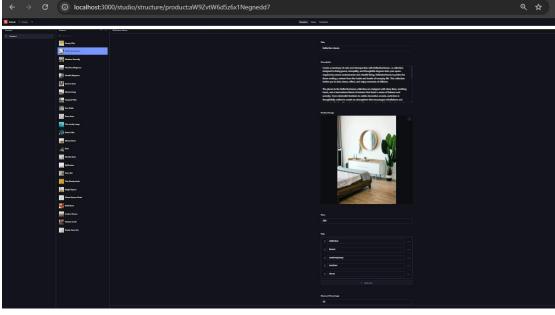
This command executed the **importData.mjs** script, which fetched the product data from Sanity CMS and populated the local database with the necessary information.

Migration Verification

Once the data was migrated, the following steps were taken to verify the success of the migration:

- The local project was run and the /studio/structure endpoint was accessed to confirm that the migrated data appeared in Sanity Studio.
- The same **Sanity login credentials** used for the CMS were employed to verify the accuracy of the data.





4. Schema Adjustments

The product schema was created to ensure that the product data was properly structured and easy to work with in Sanity CMS.

Product Schema (product.ts)

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Key Fields:

- Title: Name of the product.
- Description: Detailed description of the product.
- Price: The price at which the product is being sold.
- Image: Image(s) associated with the product.

As the focus was only on the product page, no categories schema was needed.

5. Migration Script

The migration was handled via the **importData.mjs** script. Below is the code used to automate the import of product data:

This script fetches an array of product data and creates corresponding entries in Sanity CMS using the client.create() method

6. Conclusion

On Day 3 of the hackathon, the following accomplishments were achieved:

- The **data migration** was successfully completed, transferring product data from Sanity CMS into the local database.
- The **product schema** was implemented to structure the product data.
- **API integration** with the frontend was established, allowing the marketplace to fetch and display product data from the local database.

With this work completed, the next steps involve working on the frontend integration and ensuring the smooth display of the migrated product data.