

DAY:3 REPORT

MARKET PLACE NAME:

General E-COMMERCE (FURNITURE CATEGORY SPECIALITY IN TRENDING CHAIRS AND SOFA)

API INTEGRATION PROCESS:

1. Set up Sanity Enviroment:

A new **Sanity project** was created in a **Next.js** application. The project is configured with a token for secure access, and schemas were added to define content

2. Fetch Data from External API:

- We use **Axios** to send a **GET request** to the external API (<https://template-0-beta.vercel.app/api/product>) to fetch product data.
- Axios is a popular JavaScript library for making API requests because it's easy to use, automatically parses JSON responses, and offers better error handling.
- Axios supports features like request interceptors (e.g., adding tokens), request cancellation, and timeouts. Axios is also compatible with older browsers and simplifies code compared to `fetch()`, making it a reliable and developer-friendly choice.

3. Sanity Data Insertion:

- After retrieving the product data, we loop through each product using `for of` loop and use **Sanity's client** to create a new product entry in the **Sanity CMS**.
- The data for each product (such as `id`, `name`, `imagePath`, `price`, etc.) is mapped and inserted into the Sanity CMS under the `_type: 'product'`.

4. Use Api routes

Set up a Next.js API route (`/api/fetch-and-insert`) to handle the fetching and importing process.

4. Run and Sync

Run the server with next dev and visit /api/fetch-and-insert to sync products dynamically from the API.

5. Error Handling:

- If the fetch or insertion fails, an error response is sent back with a status of 500 and a message indicating the failure.

6. Success Response:

- Once the data is successfully inserted, a success message with a 200 status is returned.

Conclusion:

This code serves as a basic example of integrating an external API to fetch product data and inserting it into Sanity CMS for storage and management.

Adjustments made to Schema's:

There is no adjustment made because,

My Schema for Product	Schema Provided	Reason
Product ID	Id	Not change for this
name	Name	same
image	image path	Better than mine
price	price	same
Stock quantity	Stock level	same
category	category	same
tags	is featured product	Better than mine
description	description	same
	discount percentage	Better than mine

Migration steps and tools used

Migration Steps:

1. Fetch data using **Axios** from the external API.
2. Map product fields to match Sanity schema.
3. Insert data into Sanity CMS using `client.create()`.

Tools Used:

- Axios (for fetching)
- Sanity Client (for insertion)