REPORT:DAY-3

API Integration Report - General E-commerce:

1. Introduction:

In this report, I will explain how I used Sanity CMS to dynamically fetch and display product cards on the frontend of the marketplace website. These cards were populated with product details stored in Sanity, and I used a combination of GROQ queries and schema to display them dynamically on the browser.

1. API Details

- API Endpoint: https://template-03-api.vercel.app/api/products
- **Purpose**: Fetch product data (including images) for migration into Sanity CMS.

2. Functions and Their Purpose

- uploadImageToSanity(imageUrl):
 - Uploads images from the API to Sanity CMS.

- Converts image URLs into assets compatible with Sanity.
- Logs success or failure for debugging.

• importData():

- Fetches product data using axios.get().
- Processes each product, uploading images and storing other details in Sanity.
- Handles errors gracefully during the migration process.

3. Key Features

- Error Handling: Logs errors during image uploads or data processing.
- **Data Validation**: Ensures schema compatibility and logs successful uploads.

4. Tools Used

- Sanity Client: For image uploads and data storage.
- **Axios**: For API calls and data fetching.

2. Sanity CMS Schema for Product Cards:

To begin, I created a schema for the product cards to store data such as the product title, description, price, and an image. Each product is stored as a document in Sanity CMS, which can then be fetched dynamically using the GROQ query.

Schema for Product Card:

Explanation:

- **title**: The name of the product.
- **description**: A brief description of the product.
- **price**: The price of the product.
- **image**: An image field to upload the product image.

3. GROQ Query to Fetch Product Cards:

Next, I used a GROQ query to fetch the product card data from Sanity CMS. The query is designed to retrieve the title, description, price, and image of all the products stored in Sanity.

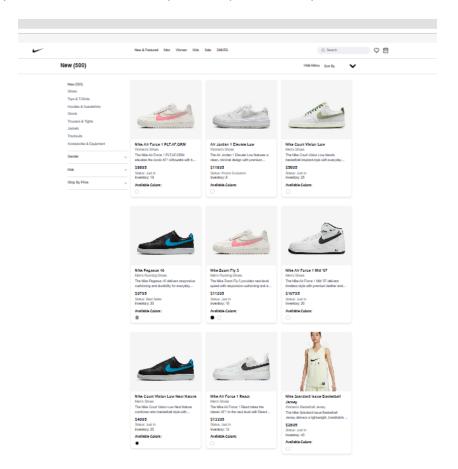
GROQ Query:

Explanation:

- _type == "productCard": This filters the query to only return documents of type productCard.
- **image** { **asset** -> { **url** } }: This fetches the URL of the image asset, which is essential for rendering the product image dynamically.

4. Dynamic Card Rendering on Frontend:

I used Next.js to fetch this data and dynamically render the product cards on the browser.



Conclusion:

This report documents the process of integrating and rendering product cards from Sanity CMS onto the frontend. Using GROQ queries, I was able to fetch the necessary data (including images), and render the product cards dynamically using Next.js. This approach allows for easy management and updates of product data in Sanity CMS, with changes automatically reflected on the frontend.