DAY - 3 API Integration Report Of - E-Commerce Marketplace:

API Integration Process :

1. Introduction

This document outlines integrating product data from an external API into the system. The integration was implemented using **Template 4**, which provided a structured setup for API calls and data management.

2. Tools and Technologies Used

Tool	**Purpose**
Template 4	Pre-built structure for seamless integration.
Node.js	JavaScript runtime environment for scripting.
Axios	Fetch data from the external API.
dotenv	Securely manage API credentials and environment variables.

Postman (optional)	Test API responses and endpoints.

4. API Integration Steps

Step 1: Cloning Template 4 :

1. Cloned the Template 4 repository to set up the integration process:

```
git clone https://github.com/anasseth/next-ecommerce-templa
te-4.git
cd next-ecommerce-template-4
```

2. Installed the required dependencies:

```
npm install
```

3. Configured environment variables in the `.env` file:

```
NEXT_PUBLIC_SANITY_PROJECT_ID={your-project-id}
NEXT_PUBLIC_SANITY_DATASET="production"
SANITY_API_TOKEN={your-sanity-api-token}
```

Step 2: Fetch Product Data :

- Used the API endpoint from Template 4 to fetch product data:

  API Endpoint: `https://next-ecommerce-template-4.vercel.app/api/product`

- Axios was used to make GET requests to the API and retrieve product data:

  ```
  const response = await axios.get("https://next-ecommerce
  -template-4.vercel.app/api/product")
  const products = response.data.products;
  ```

Step 3: Testing the API

- Verified API responses using Postman for completeness and consistency.

Schema Adjustment :

My Schema :

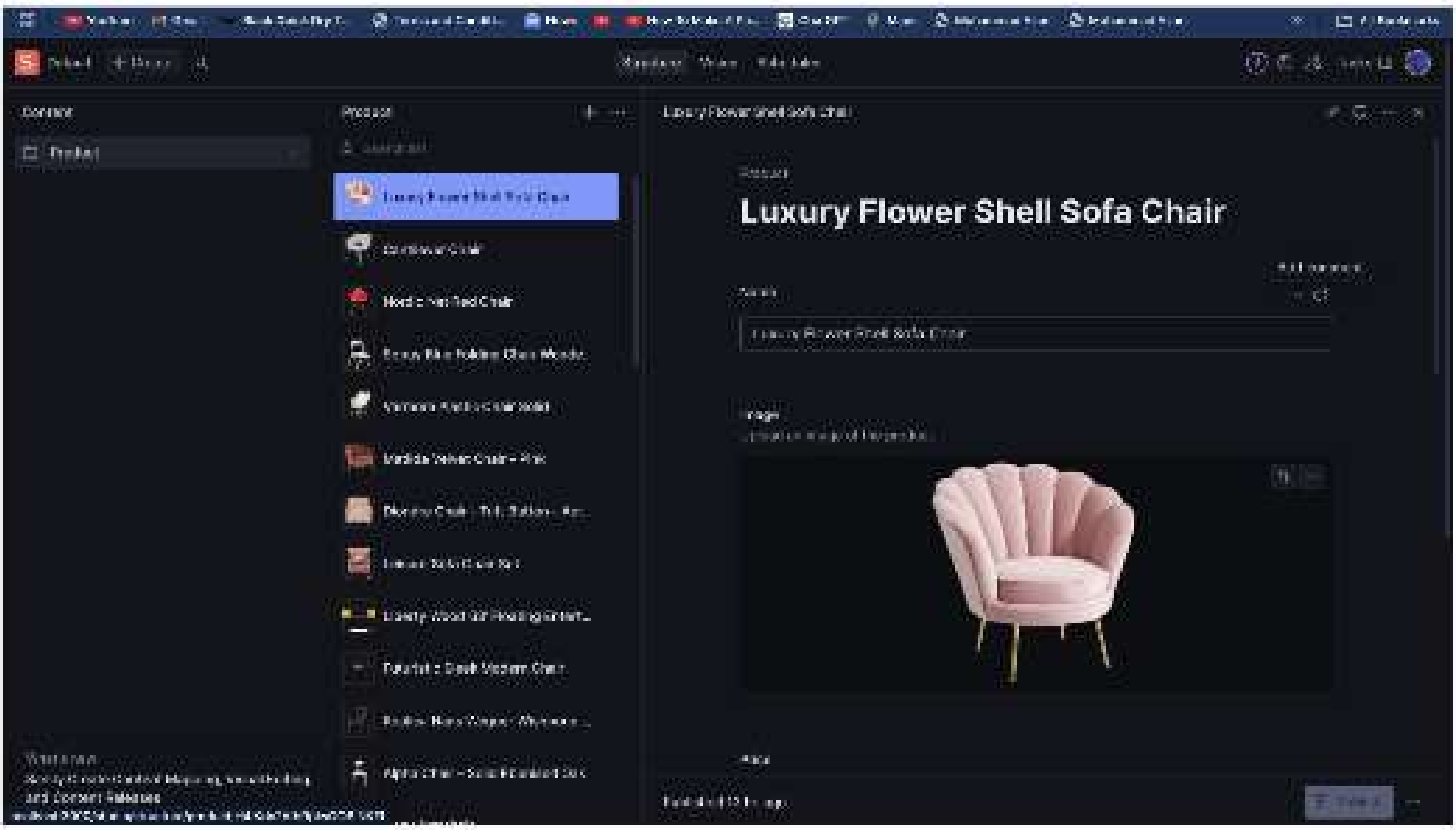
```
export default {
 name: 'product',
 title: 'Product',
 type: 'document',
 fields: [
```

```
  { name: 'productId', title: 'Product ID', type: 'string' },
  { name: 'name', title: 'Product Name', type: 'string' },
  { name: 'price', title: 'Price', type: 'number' },
  { name: 'tags', title: 'Tags', type:
  'array', of: [{ type: 'string' }] },
  { name: 'sizes', title: 'Sizes', type:
   { name: 'unit', title: 'Unit', type: 'string',
    options: { list: ['inches', 'cm', 'mm'] }}
     ]
   },
     { name: 'stock', title: 'Stock Quantity', type: 'number'
```

Adjusted Schema :

```
export default {
name: 'product',
type: 'document',
title: 'Product',
fields: [
{
name: 'name',
type: 'string',
title: 'Name',
validation:
(Rule: any) =>
Rule.required().error('Name is required'),
},
{
```

Populated Sanity CMS fields :


Content

Product

Product

Luxury Flower Shell Sofa Chair

Luxury Flower Shell Sofa Chair

Nordic Knit Red Chair

Matilda Velvet Chair - Pink

Product

Luxury Flower Shell Sofa Chair

Name

Luxury Flower Shell Sofa Chair

Image

Price

Data successfully displayed in the frontend :