# Day 3 API Integration Report -[PERFUMA]

# **API Integration Process**

# Step 1: Setting Up the API Endpoint

- API Endpoint: https://template6-six.vercel.app/api/products
- **Data Structure:** The API returns product data with various fields, including productName, price, inventory, status, description, tags and image.

# Step 2: Fetching Data from the API

An API request was made to retrieve an array of product objects. The response is parsed to
ensure proper data serialization and integrity.

## **Adjustments to Product Schema**

## 1. Field Updates:

- **Images:** The image field was configured as a Sanity image type with hotspot functionality enabled, ensuring optimal image cropping and scaling.
- Category: A category field was configured as tags based on their type.

## **Environment Setup & Dependencies**

- Dependencies Installed: @sanity/client,
- A .env.local file was created to securely store sensitive environment variables.

#### **Data Fetching Process**

#### 1. Retrieving Data:

 The response data was logged and parsed to verify its structure and ensure integrity.

## 2. Image Handling:

- o Images from the API's images field were downloaded using Axios.
- These images were then uploaded to the Sanity Asset Manager using the Sanity client.

## **Image Upload Code Example:**

```
const query=await client.fetch(`*[_type=='product']{title,_id,tags,
```

isNew,description,\_createdAt,dicountPercentage}`)

'image':productImage.asset->url,price,

### **Migration Steps & Tools**

#### 1. Document Creation:

• Sanity documents for each product were created by combining the fetched API data with uploaded image references.

## 2. Migration Tools:

- Sanity Client: Used for interacting with the Sanity CMS.
- Context Api: Used for storing fetched data to access golobaly.

## **Code Snippets**

```
"use client"
import { ReactNode, useEffect, useState } from "react";
import { CartContext, Product } from "./Context";
import { client } from "@/sanity/lib/client";
const CartProvider=({children}:{children: React.ReactNode})=>{
    interface obj{ ···
   const [cart,setcart]=useState<obj[]>([])
   const [products, setProducts] = useState < Product[] > ([])
   const [filteredProducts, setFilteredProducts] = useState<Product[]>([]);
   const [filteredProducts2, setFilteredProducts2] = useState<Product[]>([]);
   const [filters, setFilters] = useState<{ priceRange: number[]; sortBy: string; catagory:string }>({...
   const [pagination, setPagination] = useState({ currentPage: 1, itemsPerPage: 16 });
const [searchQuery,setsearchQuery]=useState<string>('')
   const [wish,setWish]=useState<obj[]>([])
   const addwish:any=(obj:obj)=>setWish([...wish,obj])
    const delwish=(id:any)=>{
       const newCArt=wish.filter((val)=>val.id !== id)
        return setWish([...newCArt])}
        const [compare.setcompare]=useState<obi[]>([])
```

## **API Integration:**

javascript

#### Copy

const response = await axios.get('https://677cca8c4496848554c7aa31.mockapi.io/products');
const products = response.data.data;

## **Migration Script:**

• The migration script was developed to populate Sanity with product data and image references.

#### **Final Checklist**

- Schema Validation: Confirmed the correct data structure was in place.
- API Integration: Ensured smooth interaction between the API and the application.
- Data Migration: Successfully migrated the data into the Sanity CMS.
- Frontend Display: Ensured the frontend displayed the data properly.

#### **Screenshots:**

1. API Call Output

```
"use client"

import React, { useState, useEffect, useContext } from 'react';
import React, { useState, useEffect, useContext } from 'react';
import Inage from 'reat/link';
import (client) from 'seantuy/lib/client';
import { client } from 'seantuy/lib/client';
const Products * () *> {
    const Obj:anyuseContext (CartContext)

    const alsimidevishlistitem(iten:any)*>{
    const alsimidevishlistitem(iten:any)*>{
    const alsimidevishlistitem(iten:any)*>;
    const alsimidevishlistitem(iten:any)*>;
}

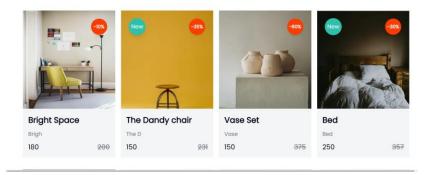
const bis delatish(item_id)

plate(
    obj:addwish(id:item_id,name:item.title,image:item.image,price:item.price,qnty:1,shipping:20)
}

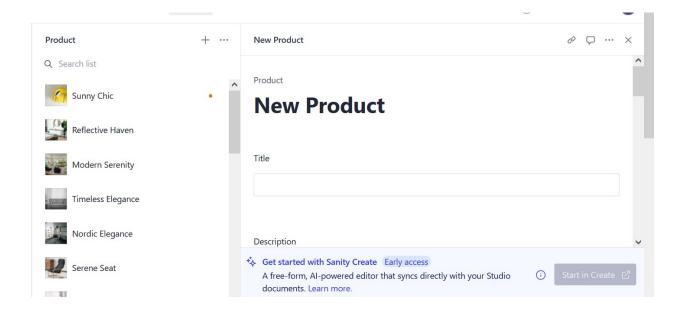
const handlecompare(item:any)*>;
if(obj.compare.length < 2){
    const handlecompare(item:any)*>;
if(sincomparelist) {
    const isincomparelistobij.compare.some((incompare:any)*>incompare.id *** item_id)
    if(isincomparelist) {
    obj:addcompare(iden:clien_id)
    }
}

plate(
    obj:addcompare(iden:clien_id)
    obj:addcompare(iden:clien_id)
}
```

# 2. Frontend Display



# 3. Populated Sanity CMS Fields



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Day / Time: Tuesday -7 pm to 10 pm