

# Day 3- API Integration and Data Migration

## **Introduction**

This report documents the API integration process, adjustments made to schemas, migration steps, and tools used during Day 3 of the project. The report also includes screenshots of API calls, data successfully displayed in the frontend, and populated Sanity CMS fields, as well as code snippets for API integration and migration scripts.

## **API Integration Process**

Detail the steps taken to integrate the API, including:

### **Setting Up the API:**

<https://template-0-beta.vercel.app/api/product>.

### **Purpose of the API:**

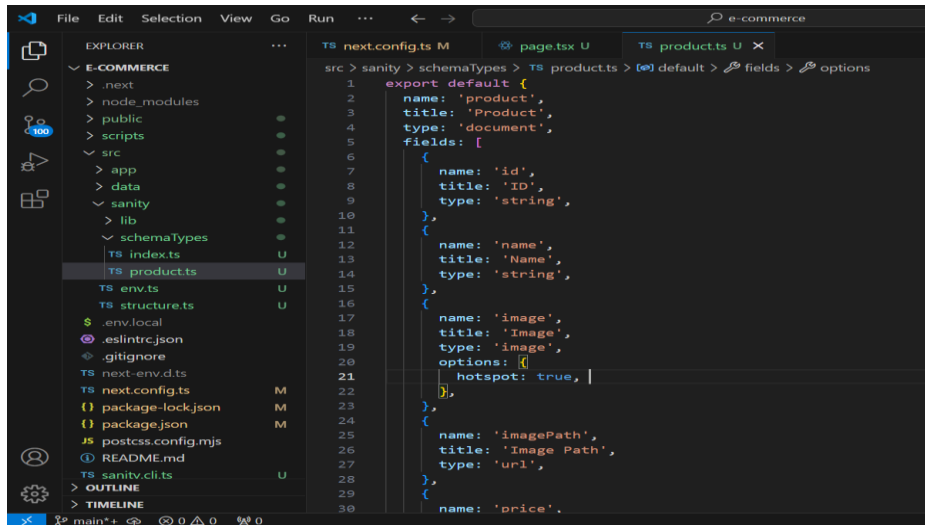
This API endpoint is to provide a list of products with their relevant details for use in an e-commerce application. It acts as a backend resource that exposes product data to be consumed by the frontend, allowing the display of product information such as names, descriptions, prices, stock levels, and images.



# Adjustments Made to Schemas

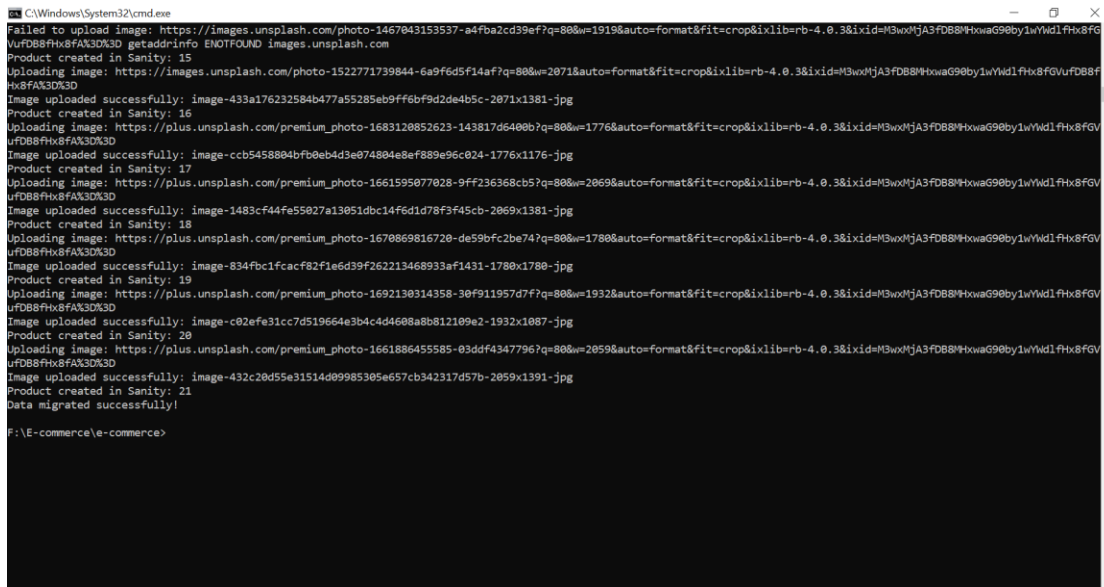
Added a new field to store image URLs.

The rest of the schema remains unchanged.



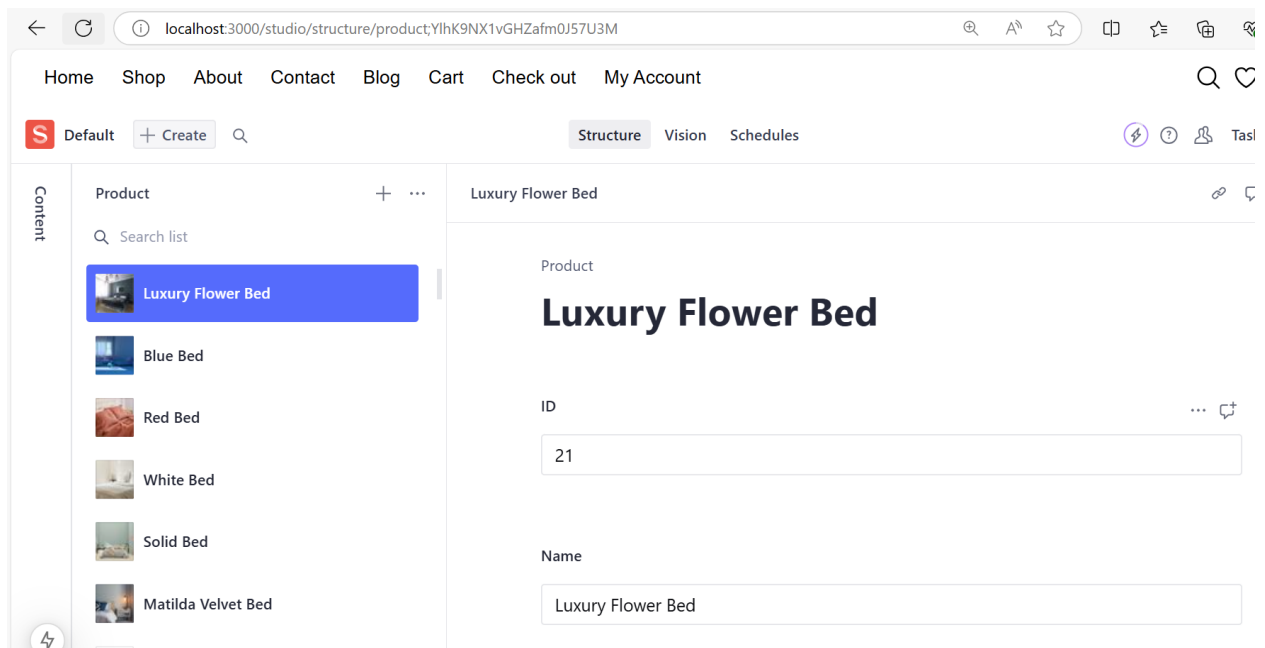
## Data Import Successfully:

The products were successfully imported into the Sanity CMS



## Data display in Sanity:

Sanity CMS fields with the fetched data.

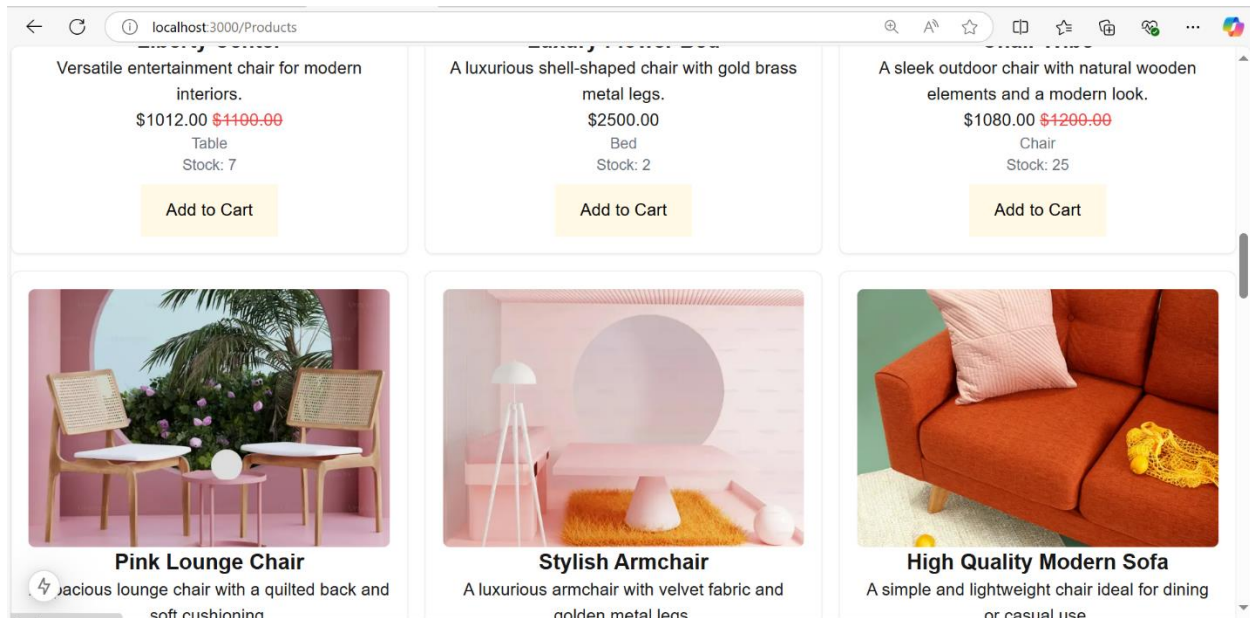


## Fetching Data from Sanity to Frontend:

The code to fetch data from Sanity and display it on the frontend

```
TS next.config.ts M  page.tsx U X  TS products.ts U
src > app > Products > page.tsx > Products
1  "use client";
2  import { useEffect, useState } from "react";
3  import { client } from "@/sanity/lib/client"; // Ensure 'client' is properly configured
4  import Image from "next/image";
5  import Link from "next/link";
6
7  // Define a Product type to match your product data structure
8  type Product = {
9    _id: string;
10   id: string;
11   name: string;
12   description: string;
13   price: number;
14   discountPercentage: number;
15   imagePath?: string; // Optional if some products don't have images
16   isFeaturedProduct: boolean;
17   stockLevel: number;
18   category: string;
19 };
20
21 // Function to map product ID to image URL
22 const getImageUrlById = (id: string): string => {
23   const imageMap: { [key: string]: string } = {
24     '1': 'https://plus.unsplash.com/premium_photo-1668073439372-2ceafa1222b7?q=80&w=1887&auto=format&fit=crop&i',
25     '2': 'https://plus.unsplash.com/premium_photo-1681022527718-81786d7873bd?q=80&w=1915&auto=format&fit=crop&i',
26     '3': 'https://plus.unsplash.com/premium_photo-1690971631390-4f3fa92315f9?q=80&w=1964&auto=format&fit=crop&i',
27     '4': 'https://plus.unsplash.com/premium_photo-1690971631361-a55009aa2c7a?q=80&w=1974&auto=format&fit=crop&i',
28     '5': 'https://next-ecommerce-template-4.vercel.app/product/Chair (4).png',
29     '6': 'https://plus.unsplash.com/premium_photo-1661765778256-169bf5e561a6?q=80&w=2070&auto=format&fit=crop&i',
30     '7': 'https://images.unsplash.com/photo-1493663284031-b7e3aefcae8e?q=80&w=2070&auto=format&fit=crop&ixlib=rt
Ln 103, Col 81  Spaces: 2  UTF-8  CRLF  {} TypeScript JSX  Prettier
```

## Data Displayed on Frontend:



## Conclusion:

Day 3 marked a significant milestone in the development of the e-commerce platform, with key achievements in API integration, schema adjustments, data migration, and frontend data display. These advancements not only enhanced the platform's functionality but also prepared it for future scalability and user-centric enhancements.