

# Day 3 - API Integration Report - TIMELESS TIMBER

## Introduction:

This report documents the integration of the external API (<https://template-0-beta.vercel.app/api/product>) with our application and the adjustments made to the Sanity schema to support the data structure and requirements. The goal was to fetch product data, transform it to fit our schema, and store it in the CMS for further use.

## Api Integration Process:

Template-0 api which was provided in the day-3 pdf is used in this project.

### API Overview

- **API Endpoint:** api/product
- **Authentication:** None
- **Response Format:** JSON
- **Key Data Points:**
  - **\_id:** Unique identifier
  - **name:** Product name
  - **price:** Price as a number
  - **description:** Product description
  - **category:** Category of the product

### OLD SCHEMA:

```
export default {
  name: "products",
  title: "Products",
  type: "document",
  fields: [
    {name: "name", title: "Product Name", type: "string",},
    {name: "Id",title: "Product ID", type: "string" },
    { name: "slug", title: "Slug", type: "slug",options: { source:
"productName",maxLength: 200, },},
```

```

    { name: "description", title: "Description", type: "text", },
    {name: "price", title: "Price",type: "number",},
    {name: "category", title: "Category", type: "string",},
    {name: "material", title: "Material", type: "string", },
    {name: "dimensions",title: "Dimensions",type: "string",},
    { name: "stock",title: "Stock", type: "number",},
    {name: "imageGallery", title: "Image Gallery", type: "array",of: [{
type: "image" }],options: {hotspot: true,},},
    { name: "tags",title: "Tags", type: "array",of: [{ type: "string"
}],},
  ],,};

```

## ADJUSTED SCHEMA ACCORDING TO THE PROVIDED API:

```

export default {
  name: 'product',
  title: 'Product',
  type: 'document',
  fields: [
    {name: 'id',title: 'ID', type: 'string',},
    {name: 'name',title: 'Name',type: 'string',},
    {name: 'imagePath', title: 'Image Path', type: 'url',},
    {name: 'price',title: 'Price',type: 'number',},
    {name: 'description', title: 'Description', type: 'text', },
    {name: 'discountPercentage', title: 'Discount Percentage', type:
'number',},
    {name: 'isFeaturedProduct', title: 'Is Featured Product',
type:'boolean',},
    {name: 'stockLevel', title: 'Stock Level', type: 'number',},
    {name: 'category', title: 'Category',type: 'string',},
  ],
};

```

## MIGRATION STEPS AND TOOLS USED:

- Used Postman for testing APIs.
- Researched about migration, found 2 methods: first api route and second script code.
- Used script method with ETL (**Extract, Transform, Load**) pattern in this Marketplace project.
- Stored Sanity token and projectId in a .env file.
- Used fetch method to get the data from the external api.
- Convert the data into JSON with data.json()
- Used sanity client.create method with a for-of loop to insert the JSON data into my Sanity Database.

## SANITY API CALL:

```
6
7  ✓ const getFeaturedProducts = async () => {
8  ✓  const featuredProducts = await client.fetch(`
9      *[_type == "product" && isFeaturedProduct][0..3] {
10     _id,
11     name,
12     imagePath,
13     price,
14     description,
15     category,
16     stockLevel,
17     isFeaturedProduct,
18     discountPercentage,
19   }
20   `);
21   return featuredProducts;
22 };
23
```

DATA DISPLAYED ON THE FRONTEND:

## FEATURED PRODUCTS



Pink Lounge Chair  
★★★★☆ 3/5  
\$1600



Nautilus Lounge Chair  
★★★★☆ 3/5  
\$1450



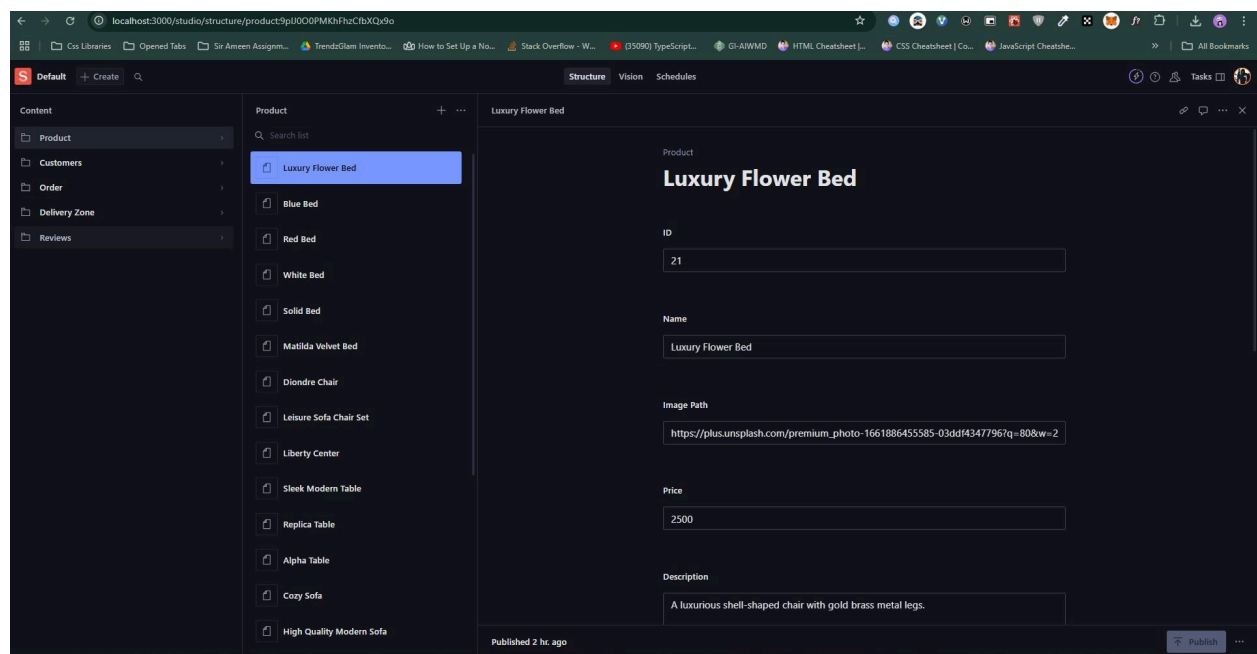
Matilda Velvet Bed  
★★★★☆ 3/5  
\$600



Luxury Flower Bed  
★★★★☆ 3/5  
\$2500

[View All](#)

SANITY FIELDS:



## CODE SNIPPET OF MIGRATION SCRIPT:

### SANITY CLIENT:

```
import { createClient } from '@sanity/client';
import dotenv from "dotenv"

dotenv.config();
const client = createClient({
  projectId: process.env.projectid,
  dataset: process.env.dataset,
  apiVersion: "2025-01-18",
  useCdn: false,
  token: process.env.token,
});

export default client;
```

### API INTEGRATION & MIGRATION SCRIPT:

```
import client from './sanityClient.js';

async function importProducts() {
  try {
    const response = await
fetch('https://template-0-beta.vercel.app/api/product');
```

```

    if (!response.ok) {
      throw new Error(`HTTP error! Status: ${response.status}`);
    }

    const products = await response.json()

    for (const product of products) {
      await client.create({
        _type: 'product',
        id: product.id,
        name: product.name,
        imagePath: product.imagePath,
        price: parseFloat(product.price),
        description: product.description,
        discountPercentage: product.discountPercentage,
        isFeaturedProduct: product.isFeaturedProduct,
        stockLevel: product.stockLevel,
        category: product.category,
      });
    }
  } catch (error) {
    console.error('Error fetching products:', error);
  }
}

importProducts();

```

## CODE SNIPPET OF SANITY API CALL (USING GROQ QUERY):

```

import { client } from "@sanity/lib/client";

const getFeaturedProducts = async () => {
  const featuredProducts = await client.fetch(`
    *[_type == "product" && isFeaturedProduct][0..3] {
      _id,
      name,
      imagePath,

```

```
        price,  
        description,  
        category,  
        stockLevel,  
        isFeaturedProduct,  
        discountPercentage,  
    }  
    `);  
    return featuredProducts;  
};
```