

# Day 3 – API Integration Report – Home Haven

## API Integration Overview

I chose Template 0 API (<https://template-0-beta.vercel.app/api/product>) for integration with Home Haven marketplace. The API provides product data that includes names, prices, descriptions, categories, stock levels, and discount information.

## Implementation Steps Completed

### 1. Schema Setup

```
export let product = {
  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',
    },
  ],
};

```

## 2. API Integration and Data Migration

```

import { NextResponse } from 'next/server';
import axios from 'axios';
import { client } from '@sanity/lib/client'; // Sanity client ko import karein

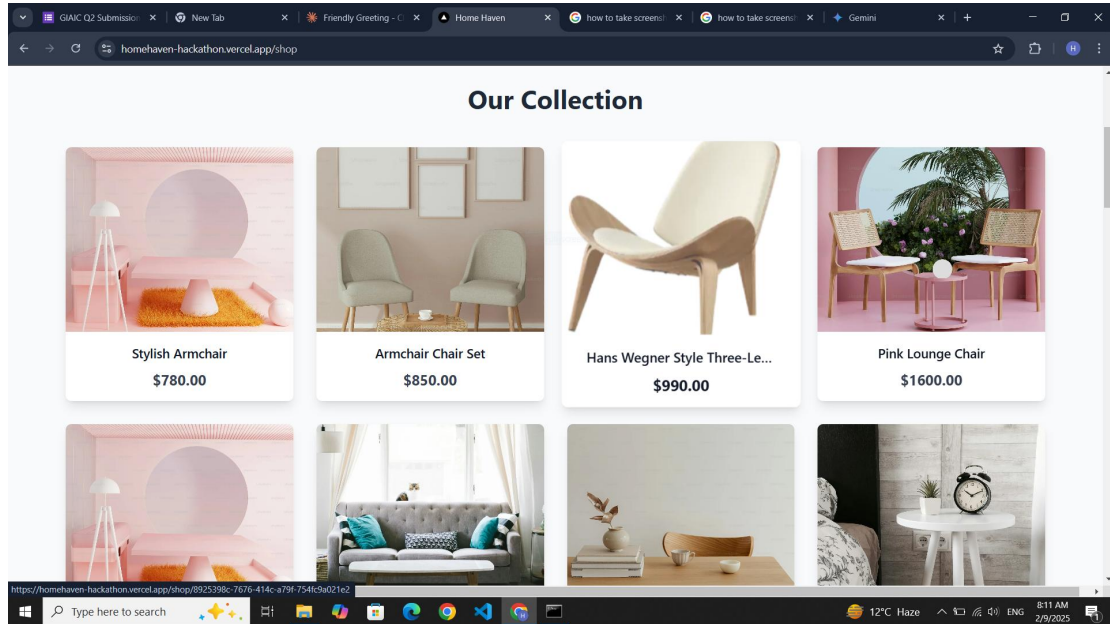
interface Product {
  id: string;
  name: string;
  imagePath: string;
  price: number;
  description: string;
  discountPercentage: number;
  isFeaturedProduct: boolean;
  stockLevel: number;
  category: string;
}

// ✔ POST request handle karna
export async function GET() {
  try {
    // API se data fetch karna
    const { data } = await axios.get<Product[]>('https://template-0-beta.vercel.app/api/product');
    // Har product ko Sanity mein insert karna
    for (const product of data) {
      await client.create({
        _type: 'product',
        id: product.id,
        name: product.name,
        imagePath: product.imagePath,
        price: (product.price),
        description: product.description,
        discountPercentage: product.discountPercentage,
        isFeaturedProduct: product.isFeaturedProduct,
        stockLevel: product.stockLevel,
        category: product.category,
      });
    }
    return NextResponse.json({ message: 'Data inserted successfully!' }, { status: 200 });
  } catch (error) {
    console.error(error);
    return NextResponse.json({ error: 'Failed to fetch or insert data' }, { status: 500 });
  }
}

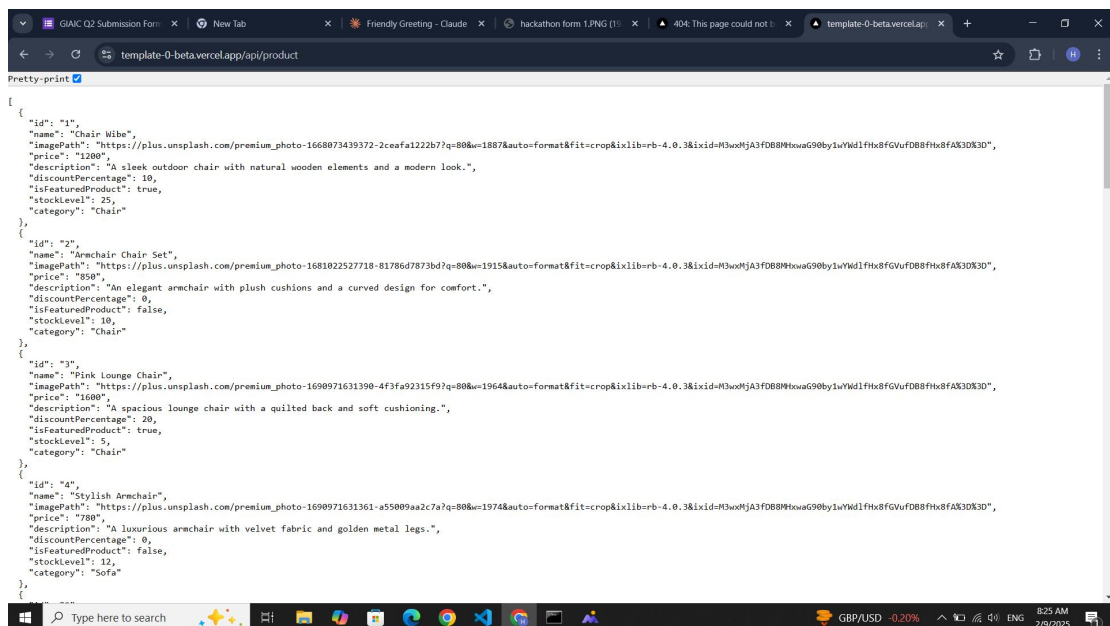
```

# Implementation Screenshots

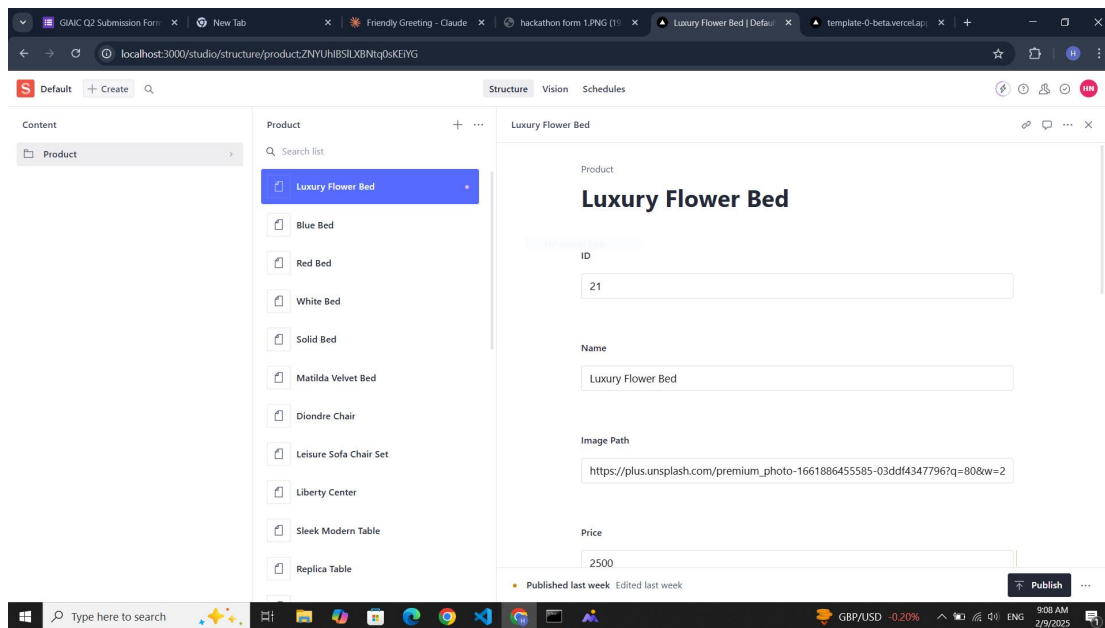
## 1. Frontend Display



## 2. API Response



### 3. Sanity Studio Integration



### Testing Results

- Successfully fetched data from Template 0 API
- Data correctly displays on front-end with proper styling and layout
- All products migrated to Sanity CMS with complete field mapping
- Error handling implemented for failed API calls or data insertion