

# Day 3 - API Integration Report - Avion

## 1. Introduction

This report documents the API integration process for **Avion**, focusing on importing product data from an external API into our **Sanity CMS**. It covers the integration steps, schema adjustments, and migration process.

## 2. API Integration Process

### API Used:

I integrated data from the following API endpoint:

**<https://hackathon-apis.vercel.app/api/products>**

### Steps Followed for Integration:

1. **Cloning the Repository** <https://github.com/bilalmk/hackathon-template02.git>:
  - The provided repository was cloned to set up the migration process.
2. **Navigating to the Migration Folder:**
  - Moved into the sanity-migration folder and ran the installation command: `npm install`
3. **Setting Up Environment Variables:**
  - Created a `.env` file in the sanity-migration folder and defined the required variables: `SANITY_PROJECT_ID`, `SANITY_DATASET`, `SANITY_TOKEN`
4. **Executing the Migration Script:**
  - Ran the following command to import product data: `node importData.js`

This script fetched data from the API and imported it into our **Sanity CMS**.

## 3. Schema Used

the given **product.ts** and **category.ts** schemas were used as provided.

```

export const product = defineType({
  name: "product",
  title: "Product",
  type: "document",
  fields: [
    defineField({
      name: "category",
      title: "Category",
      type: "reference",
      to: [{
        type: "category"
      }]
    }),
    defineField({
      name: "name",
      title: "Title",
      validation: (rule) => rule.required(),
      type: "string"
    }),
    defineField({
      name: "slug",
      title: "Slug",
      validation: (rule) => rule.required(),
      type: "slug"
    }),
    defineField({
      name: "image",
      type: "image",
      validation: (rule) => rule.required(),

```

```

import { defineType, defineField } from "sanity";

export const Category = defineType({
  name: "category",
  title: "Category",
  type: "document",
  fields: [
    defineField({
      name: "name",
      title: "Name",
      type: "string",
      validation: (rule) => rule.required(),
    }),
    defineField({
      name: "slug",
      title: "Slug",
      type: "slug",
      validation: (rule) => rule.required(),
      options: {
        source: "name",
      }
    })
  ]
})

```

```
sanity > schemaTypes > TS index.ts > [e] schema
1  import { type SchemaTypeDefinition } from 'sanity'
2  import { product } from './products'
3  import { Category } from './category'
4
5  export const schema: { types: SchemaTypeDefinition[] } = {
6    types: [product, Category],
7  }
8
```

## 4. Migration Steps and Tools Used

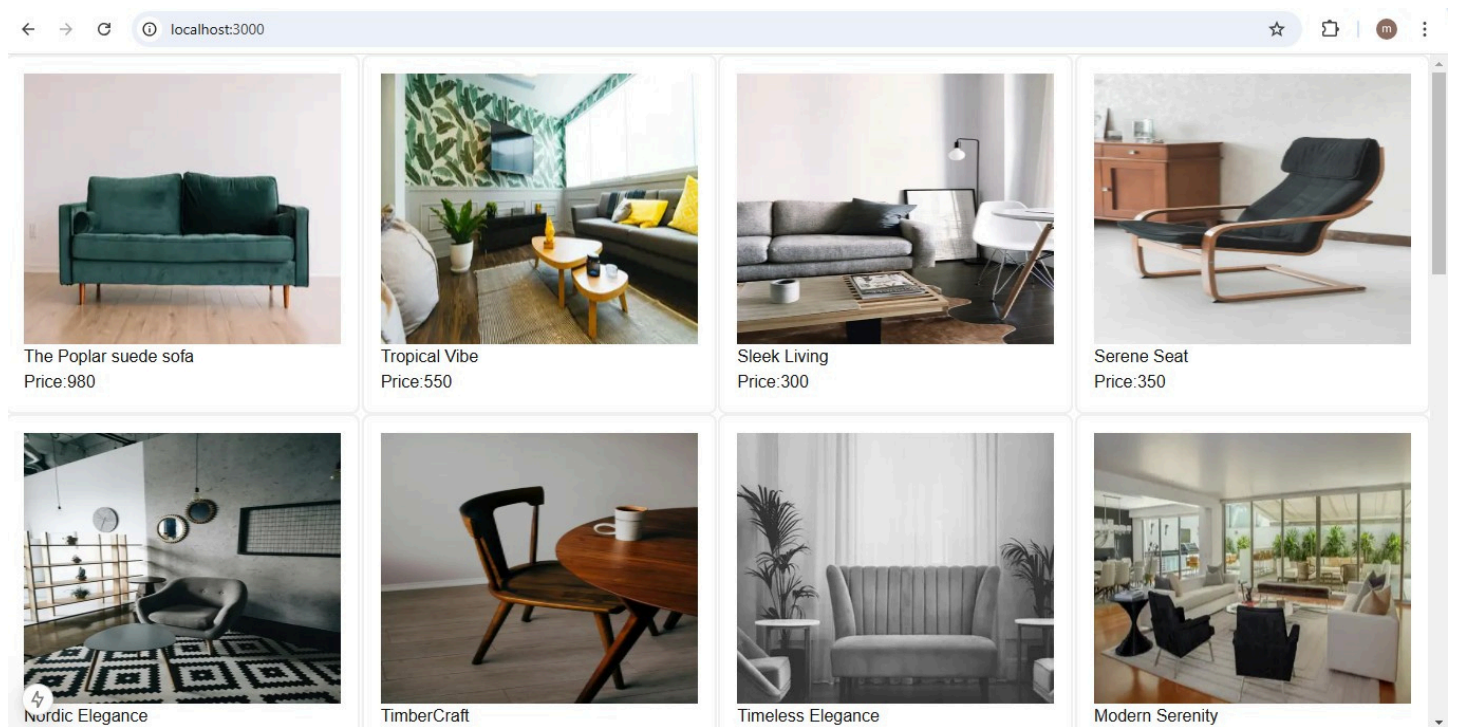
### Tools Used:

- **Next.js with TypeScript** – For project setup and frontend development
- **Sanity CMS** – For storing and managing product data

### Migration Steps:

1. Fetched data from the API using the `importData.js` script.
2. Imported the data into Sanity CMS.
3. Checked Sanity CMS to confirm successful import.

## 5. Product List Displayed on Frontend:



## 6. Conclusion

The integration of **Hackathon API** into the **Avion marketplace** was successfully completed using **Next.js with TypeScript** and **Sanity CMS**. The API data was fetched and stored without modifying the given schema.