Day 3 API Integration Report

Avion Furniture and Decor Website

Ul Development

We developed the **Avion Furniture and Decor** website UI with a focus on creating a visually appealing and user-friendly design. The technologies used include **Next.js**, **TypeScript**, and **Tailwind CSS**.

Our team leveraged **VS Code** as the integrated development environment (IDE), ensuring an efficient workflow. The **Thunder Client** extension within VS Code was particularly helpful for testing and validating API responses. This approach enabled us to deliver a modern, responsive interface aligned with the website's branding. \rightleftharpoons

S API Integration Process

The API integration process was completed successfully, enabling dynamic content and efficient data handling for the website. The following steps outline the integration procedure:

```
Tabnine|Edit|Test|Explain|Document
async function importData() {
    try {
        // Fetch data from external API
        const response = await axios.get('https://hackathon-apis.vercel.app/api/products');
        const products = response.data;
        //console.log(products)
        let counter=1;
        // Iterate over the products
        for (const product of products) {
        let imageRef = null;
        let catRef=null;

        // Upload image and get asset reference if it exists
        if (product.image) {
            //imageRef = await uploadImageToSanity(product.imageUrl);
            imageRef = await uploadImageToSanity(product.imageUrl);
            imageRef = await createCategory(product.category,counter)
        }
        if(product.category.name) {
            catRef = await createCategory(product.category,counter)
        }
        const sanityProduct = {
            const sanityProduct = {
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```

Migration Setup and Tools Used XX

Environment Setup

- Installed required dependencies using npm install
- Installed dotenv package using npm install dotenv 🔒
- Created a .env file to secure environment variables 📝

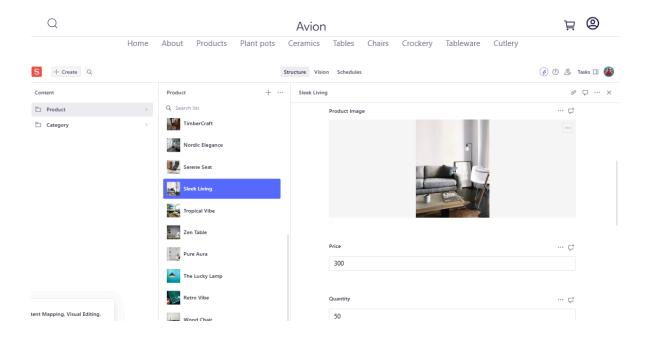
Data Fetching III

- Retrieved product data from API using Axios library 📈
- Parsed and logged the data to confirm its structure and integrity 🔍

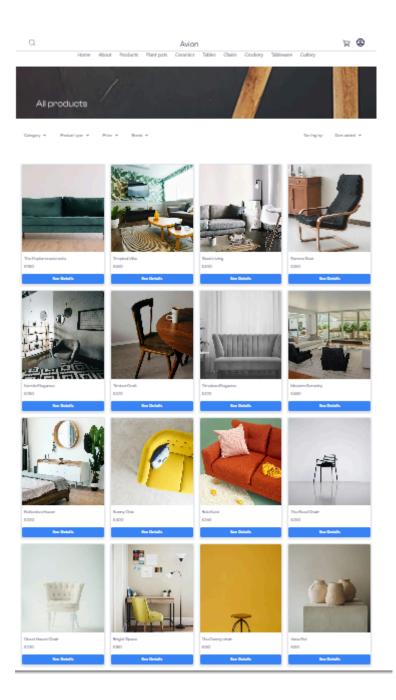
Tools Used ea

- Axios Library: Used for interacting with the API
- Thunder Client Extension: Used for checking the API 🔍
- VS Code: Used as the Integrated Development Environment (IDE)

Integrating Fetched Data into Sanity CMS 📊



Fetched Data Visualization 📊



Define Schemas:

1.Product Schema:

```
inty > schemaTypes > T0 productts > (**) product > (**) fields
import { defineType, defineField } from "sanity"
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"
          name: "price",
type: "number",
validation: (rule) -> rule.required(),
title: "Price",
             }),
defineField({
                   name: "quantity",
title: "Quantity",
type: "number",
validation: (rule) -> rule.min(8),
             }),
defineField({
                   name: "tags",
type: "array",
title: "Tags",
                  type: "string"
             }),
defineField({
                   name: 'description',
title: 'Description',
type: 'text',
description: 'Detailed description of the product',
```

1.Category Schema:

```
sanity > schemalypes > 18 category.ts > 🕪 Category > 🎤 fields
  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",
           })
  })
```

***** Conclusion

The successful completion of the UI development, API integration, and migration steps highlights significant progress in the project. By adhering to secure coding practices like using .env files and implementing robust error handling, we ensured the system is both scalable and reliable.

This milestone reflects our commitment to delivering high-quality, secure, and efficient solutions.

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