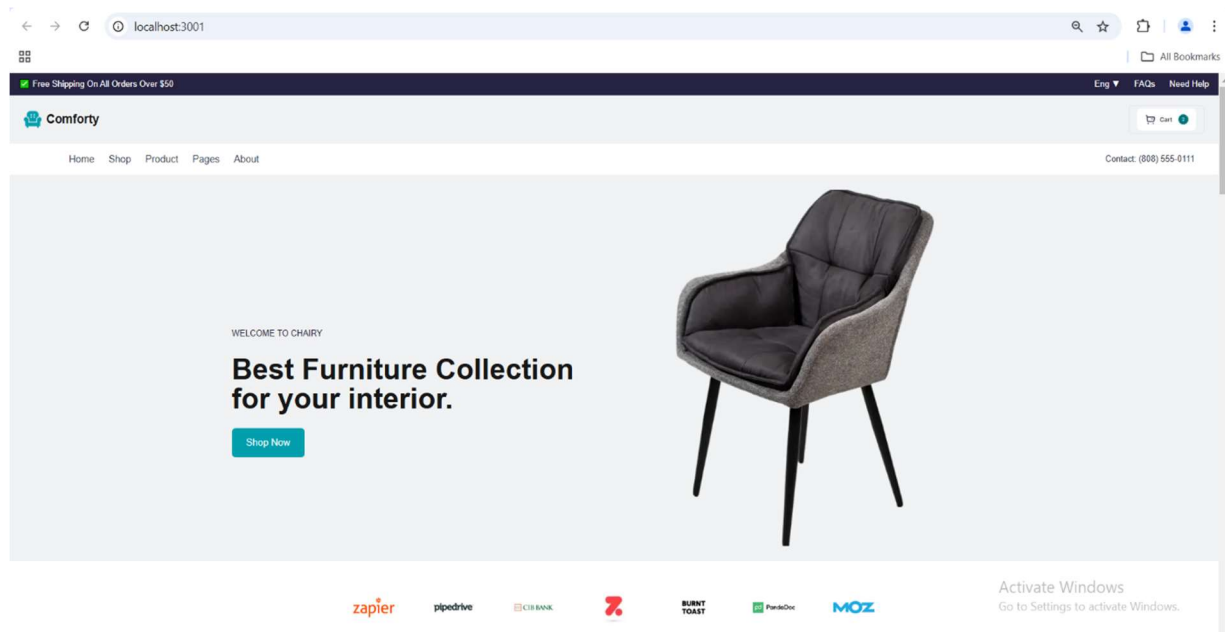


Hackathon Day 3

API Integration and Data Migration



Understanding the Requirements:

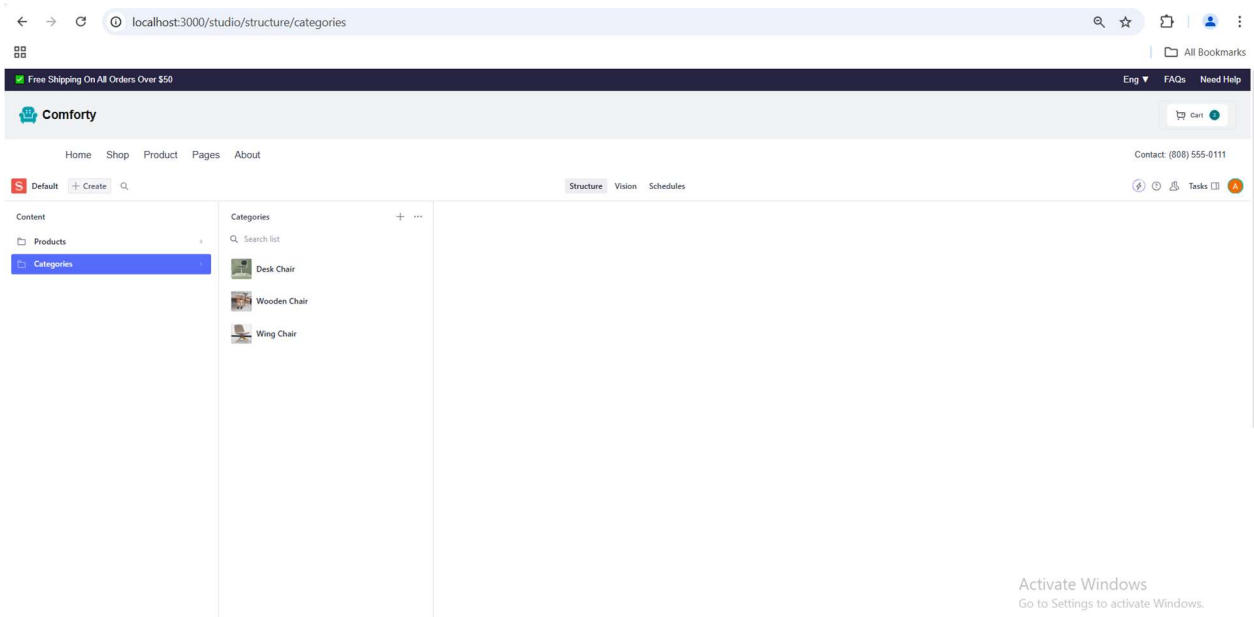
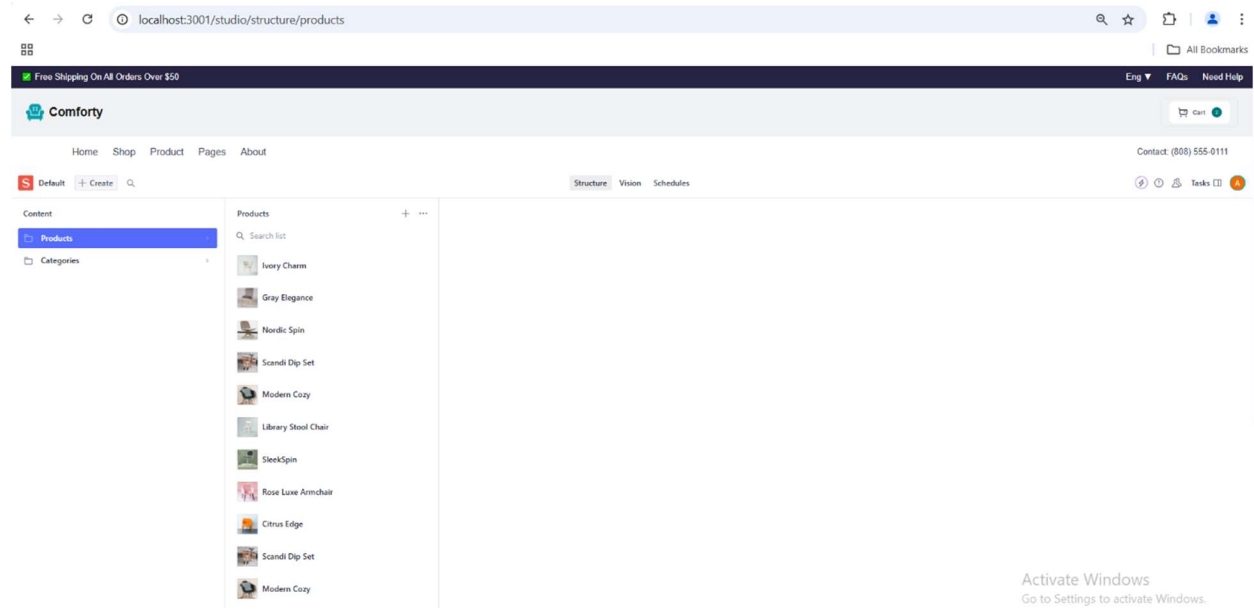
The goal was to integrate a REST API and migrate its data, specifically products and categories, into a Sanity CMS using Node.js. This process also involved setting up the environment to facilitate smooth integration.

Setting Up the Environment:

- Configured `.env.local` file with the necessary Sanity credentials:
 - `SANITY_PROJECT_ID`
 - `SANITY_DATASET`
 - `SANITY_AUTH_TOKEN`
 - Ensured that the correct environment variables were loaded in the script for seamless execution.
-

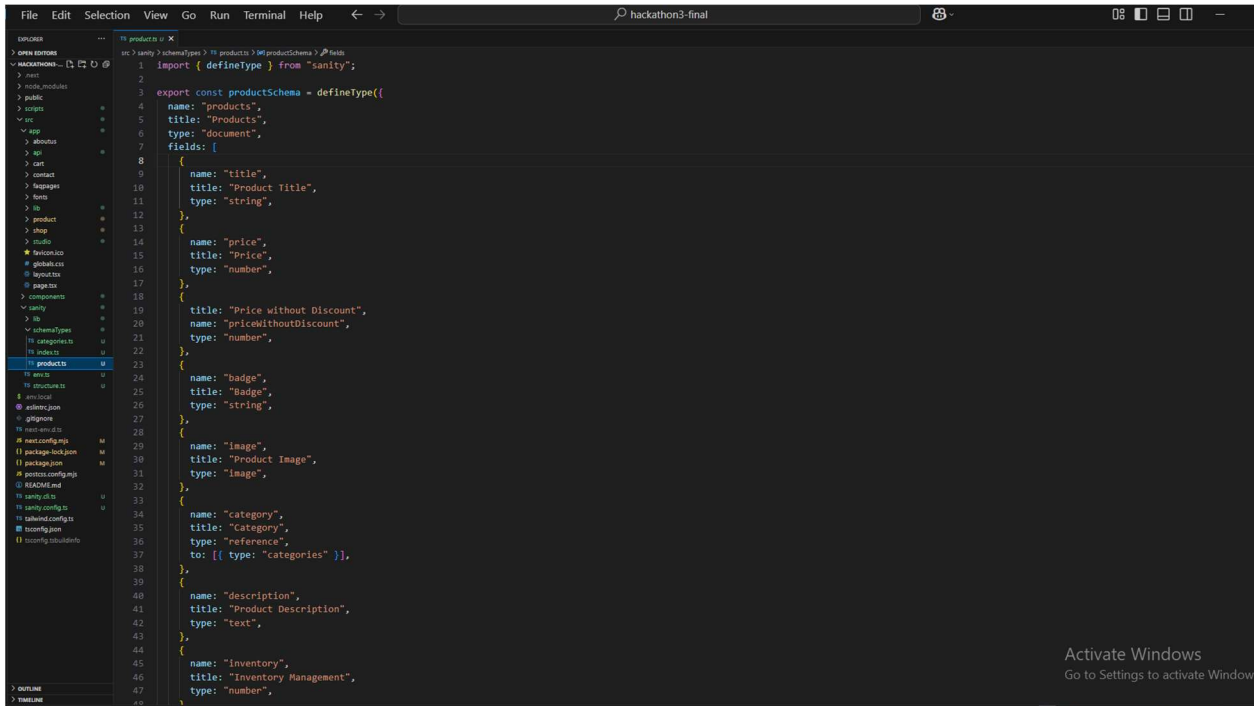
Data Migration Script:

- Developed a migration script (`migrate.mjs`) to perform the following tasks:
 - Fetch product and category data from the REST API.
 - Utilize the Sanity client to:
 - Upload images.
 - Create new records for categories and products in the Sanity CMS.



Sanity Schema:

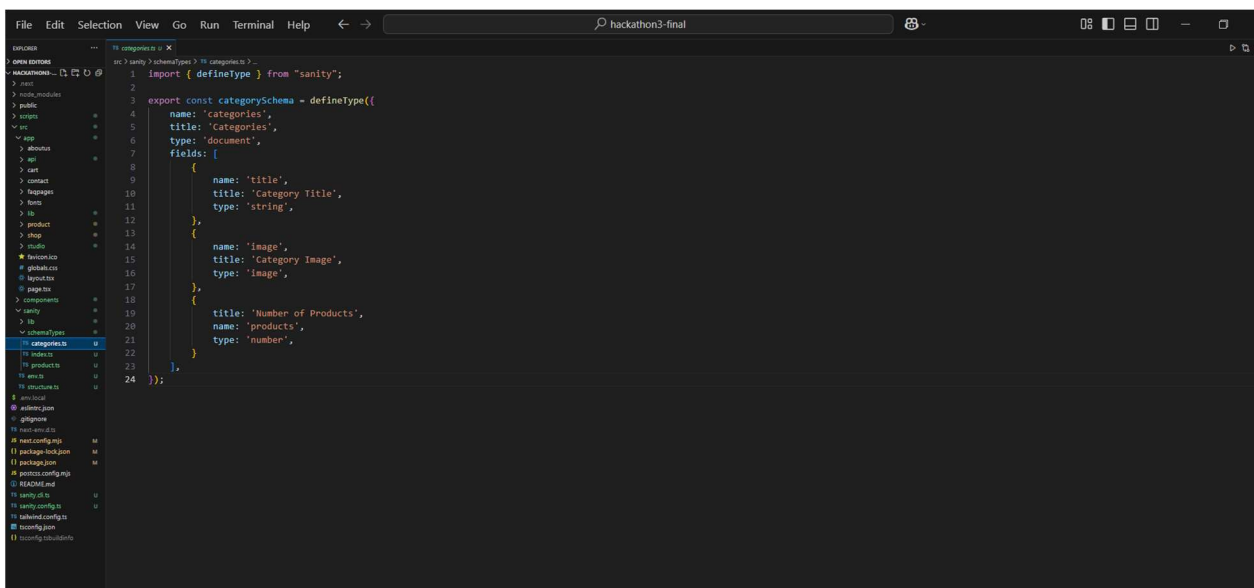
- **Category Schema:**
 - Fields for category name and description.
 - Reference field for linking products to categories.
- **Product Schema:**
 - Fields for product name, description, price & badge.
 - Image field to store product images.
 - Reference field to associate products with categories.



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// products.ts
import { defineType } from "sanity";

export const productsSchema = defineType({
  name: "products",
  title: "Products",
  type: "document",
  fields: [
    {
      name: "title",
      title: "Product Title",
      type: "string",
    },
    {
      name: "price",
      title: "Price",
      type: "number",
    },
    {
      title: "Price without Discount",
      name: "priceWithoutDiscount",
      type: "number",
    },
    {
      name: "badge",
      title: "Badge",
      type: "string",
    },
    {
      name: "image",
      title: "Product Image",
      type: "image",
    },
    {
      name: "category",
      title: "Category",
      type: "reference",
      to: [{ type: "categories" }],
    },
    {
      name: "description",
      title: "Product Description",
      type: "text",
    },
    {
      name: "inventory",
      title: "Inventory Management",
      type: "number",
    },
  ],
});
```



```
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hackathon3-final

// categories.ts
import { defineType } from "sanity";

export const categorySchema = defineType({
  name: "categories",
  title: "Categories",
  type: "document",
  fields: [
    {
      name: "title",
      title: "Category Title",
      type: "string",
    },
    {
      name: "image",
      title: "Category Image",
      type: "image",
    },
    {
      title: "Number of Products",
      name: "products",
      type: "number",
    },
  ],
});
```

Data Migration Process:

1. Migrated categories and products to Sanity, ensuring proper data mapping.
2. Managed category mapping effectively to maintain data consistency.

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sanity.js
1 import { client } from "@sanity/lib/client";
2 export const dynamic = "force-static";
3
4 export async function GET() {
5   try {
6     const categories = await client.fetch(`*[_type == "categories"] {
7       _id,
8       title,
9       imageUrl: image.asset->url
10     }`);
11
12     return new Response(JSON.stringify(categories), {
13       headers: { "Content-Type": "application/json" },
14     });
15   } catch (error) {
16     console.log(error);
17     return new Response(
18       JSON.stringify({ error: "Failed to fetch categories" }),
19       {
20         status: 500,
21         headers: { "Content-Type": "application/json" },
22       }
23     );
24   }
25 }
26
```

Finalization:

- Successfully completed the data migration process with no errors.
- Confirmed that the project is ready for front-end integration.

