Day 3 Api Intergrations Reports

Welcome to Comforty

A one-stop furniture marketplace that offers ergonomic chairs, trendy stools, and luxurious sofas designed for comfort and style.

Project Overview:

What We Aim to Achieve:

1. Comforty is built using **Next.js** for the frontend and **Sanity CMS** for managing product data.
2. The focus of this hackathon project is to integrate Sanity CMS for managing product listings effectively.
3. We aim to offer a smooth user experience with interactive filters for browsing different furniture types: chairs, stools, and sofas.

Key Features:

- **Real-time data integration** using APIs for product and category details.
- **Seamless migration** of existing data into the Sanity CMS.
- **Attractive, responsive UI** that adapts to all devices.

Import Data in Sanity


```
10   # SHIPENGINE_THIRD_COURIER="se-1593223"
11   # SHIPENGINE_FOURTH_COURIER="se-1593310"
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   COMMENTS

```
Starting data migration...
Migrating category: Wing Chair
Migrated category: Wing Chair (ID: 26fd7176-3c4d-40fc-a73a-3b85a9b5e15f)
Migrating category: Wooden Chair
Migrated category: Wooden Chair (ID: 407a8583-6203-4f61-becf-8e8b4c5461b6)
Migrating category: Desk Chair
Migrated category: Desk Chair (ID: b5710116-09af-4d0e-aa9a-dcd02fe919a9)
Migrating product: SleekSpin
Migrated product: SleekSpin (ID: YlhK9NX1vGHZafm0Ixpzc0)
Migrating product: Citrus Edge
Migrated product: Citrus Edge (ID: YlhK9NX1vGHZafm0Ixpzrs)
Migrating product: Rose Luxe Armchair
Migrated product: Rose Luxe Armchair (ID: YlhK9NX1vGHZafm0Ixq03U)
Migrating product: Library Stool Chair
Migrated product: Library Stool Chair (ID: wPP85IKp4BBNa4TZwuGfXm)
Migrating product: Modern Cozy
Migrated product: Modern Cozy (ID: wPP85IKp4BBNa4TZwuGfbS)
Migrating product: Scandi Dip Set
Migrated product: Scandi Dip Set (ID: wPP85IKp4BBNa4TZwuGfni)
Migrating product: Citrus Edge
Migrated product: Citrus Edge (ID: YlhK9NX1vGHZafm0Ixq0gC)
Migrating product: Rose Luxe Armchair
Migrated product: Rose Luxe Armchair (ID: wPP85IKp4BBNa4TZwuGgCE)
Migrating product: SleekSpin
Migrated product: SleekSpin (ID: wPP85IKp4BBNa4TZwuGgKo)
Migrating product: Library Stool Chair
Migrated product: Library Stool Chair (ID: wPP85IKp4BBNa4TZwuGgX4)
Migrating product: Modern Cozy
Migrated product: Modern Cozy (ID: wPP85IKp4BBNa4TZwuGgeQ)
Migrating product: Scandi Dip Set
Migrated product: Scandi Dip Set (ID: wPP85IKp4BBNa4TZwuGgjK)
Migrating product: Nordic Spin
Migrated product: Nordic Spin (ID: T085KYtXNFHGKpMRVMRnoh)
Migrating product: Gray Elegance
```

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Sanity Schema Overview

1 Product Schema Overview

```
import { defineType } from "sanity";

export const productSchema = defineType({
  name: "products",
  title: "Products",
  type: "document",
  fields: [
    { name: "title", title: "Product Title", type: "string" },
    { name: "price", title: "Price", type: "number" },
    { name: "priceWithoutDiscount", title: "Price without Discount", 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" },
    {
      name: "tags",
      title: "Tags",
      type: "array",
      of: [{ type: "string" }],
      options: {
        list: [
          { title: "Featured", value: "featured" },
          { title: "Follow products and discounts on Instagram", value: "instagram" },
          { title: "Gallery", value: "gallery" }
        ]
      }
    }
  ]
});
```

2:- Categories Schema Overview

```
1   const productSchema = {
2     name: "product",
3     type: "document",
4     title: "Product",
5     fields: [
6       {
7         name: "badge",
8         title: "Badge",
9         type: "string",
10      },
11      { name: "title", type: "string", title: "Title" },
12      { name: "price", type: "number", title: "Price" },
13      { name: "image", type: "image", title: "Image" },
14      { name: "stock", type: "number", title: "Stock" },
15      {
16        name: "slug",
17        type: "slug",
18        title: "Slug",
19        options: {
20          source: "title",
21          maxLength: 200,
22        },
23      },
24    ],
25  };
26
27  export default productSchema;
28
```

Data Migration Process:-

- NEXT_PUBLIC_SANITY_PROJECT_ID="<Project ID>"
- NEXT_PUBLIC_SANITY_DATASET="production"
- NEXT_PUBLIC_SANITY_AUTH_TOKEN="<Auth Token>"

Migration Code:

```
// Import environment variables from .env.local
import "dotenv/config";

// Import the Sanity client to interact with the Sanity backend
import { createClient } from "@sanity/client";

// Load required environment variables
const {
  NEXT_PUBLIC_SANITY_PROJECT_ID, // Sanity project ID
  NEXT_PUBLIC_SANITY_DATASET, // Sanity dataset (e.g., "production")
  NEXT_PUBLIC_SANITY_AUTH_TOKEN, // Sanity API token
  BASE_URL = "https://giaic-hackathon-template-08.vercel.app", // API base URL for products and categori
} = process.env;

// Check if the required environment variables are provided
if (!NEXT_PUBLIC_SANITY_PROJECT_ID || !NEXT_PUBLIC_SANITY_AUTH_TOKEN) {
  console.error("Missing required environment variables. Please check your .env.local file.");
  process.exit(1); // Stop execution if variables are missing
}

// Create a Sanity client instance to interact with the target Sanity dataset
const targetClient = createClient({
  projectId: NEXT_PUBLIC_SANITY_PROJECT_ID, // Your Sanity project ID
  dataset: NEXT_PUBLIC_SANITY_DATASET || "production", // Default to "production" if not set
  useCdn: false, // Disable CDN for real-time updates
  apiVersion: "2023-01-01", // Sanity API version
  token: NEXT_PUBLIC_SANITY_AUTH_TOKEN, // API token for authentication
});

// Function to upload an image to Sanity
async function uploadImageToSanity(imageUrl) {
  try {
```

How Data is Displayed in Sanity Studio

Diagram Breakdown:

- **Product Data Fields:**
  - **Product Title**: Displayed as a text field.
  - **Price**: Displayed as a number field.
  - **Product Image**: Shown as an image field, where you can upload images for each product.
  - **Category**: A reference to the categories schema. Clicking on this allows you to select a category for the product.
  - **Inventory Management**: Displayed as a number field to track product stock.
  -
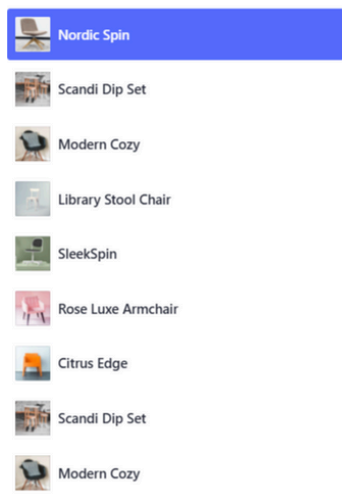
Category Data Fields:

- **Category Title**: Displayed as a text field for naming the category.
- **Slug**: Shows the URL-friendly version of the category name.
- **Category Image**: A field to upload an image representing the category.

Frontend Display of Product and Category Data

Featured Products

Library Stool Chair $39 🛒	Cesca Chair $35 🛒	Slipper Chair $69 🛒	Deco Chair $22 🛒
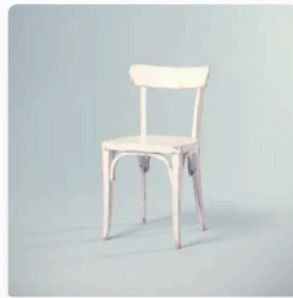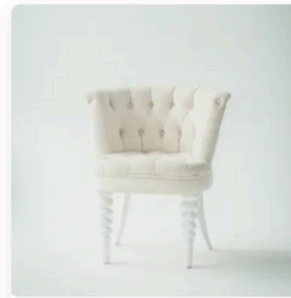
Top Categories

Slipper Chair

69 $ USD

Pour-over craft beer pug drinking vinegar live-edge gastropub, keytar neutra sustainable fingerstache kickstarter. Lorem ipsum dolor sit amet consectetur adipisicing elit. Voluptas voluptatum a veritatis pariatur.

- 1 +

Add to Cart

Total Stock: 9

Go to Cart

Conclusion

Comforty is now fully equipped with an efficient data management system using Sanity for handling products and categories.

Future developments can include integrating dynamic categories and more advanced filtering options.