# **Hackathon Day 3: Data Integration And Data Migration**

## **Objective:**

- 1. Import product data from the provided API to Sanity CMS.
- 2. Automate the process of uploading products and images.
- 3. Build a frontend to display products fetched from **Sanity CMS**.

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### **Steps Followed:**

### 1. Sanity CMS Schema Validation:

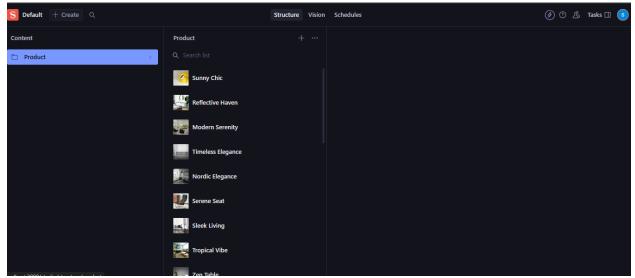
- Used the schema provided in Day 2.

#### **Final Schema Code:**

```
import { defineType } from "sanity"
export const product = defineType({
   name: "product",
   title: "Product",
   type: "document",
   fields: [
           name: "title",
           title: "Title",
            validation: (rule) => rule.required(),
            type: "string"
        },
            name:"description",
            type:"text",
            validation: (rule) => rule.required(),
            title: "Description",
        },
            name: "productImage",
           type: "image",
```

```
validation: (rule) => rule.required(),
   title: "Product Image"
   name: "price",
    type: "number",
   validation: (rule) => rule.required(),
    title: "Price",
    name: "tags",
   type: "array",
   title: "Tags",
   of: [{ type: "string" }]
   name:"dicountPercentage",
    type:"number",
    title: "Discount Percentage",
},
    name:"isNew",
   type:"boolean",
   title:"New Badge",
```

### Sanity CMS Schema Editor:



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## 2. API Data Import Implementation:

### **Script Overview**

#### A script was created to:

- 1. Fetch data from the provided API (https://template6-six.vercel.app/api/products).
- 2. Upload product images to Sanity CMS.
- 3. Create product documents in Sanity CMS using the fetched data.

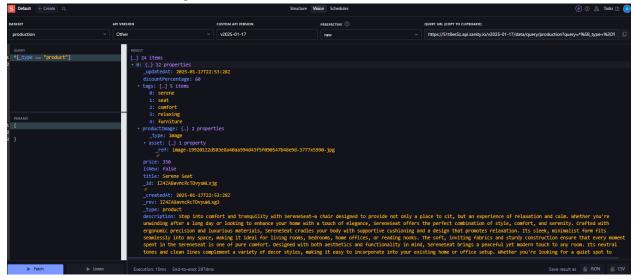
#### **Key Code**

#### **Sanity Client Setup**

```
import { createClient } from 'next-sanity'
import { apiVersion, dataset, projectId } from '../env'

export const client = createClient({
   projectId ,
   dataset,
   apiVersion,
   useCdn: true, // Set to false if statically generating pages, using ISR or tag-based revalidation
})
```

# **Main Function to Import Products:**



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# 3. Testing & Validation

# **Steps**

- 1. Executed the script to import product data into Sanity CMS.
- 2. Verified all products were successfully imported by checking the Sanity dashboard.
- 3. Cross-checked the data consistency between the API and Sanity CMS.
- Sanity CMS Dashboard showing imported products.
- Console Output showing successful upload logs.

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## 4. Frontend Integration

## **Frontend Setup**

- Used **React/Next.js** to build the frontend.
- Fetched products from Sanity CMS using GROQ queries.
- Displayed product listings on the homepage.

## **GROQ Query for Fetching Products**

```
async function getdata() {
  const fetchdata = client.fetch(`*[_type == "product" ]{
  title,
```

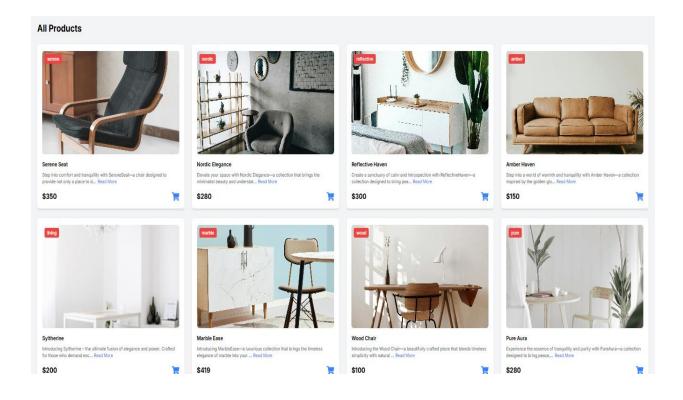
```
price,
  description,
 productImage{
   asset->{
     _id,
     url
 tags,
 dicountPercentage
  return fetchdata;
const ProductDescription = ({ description }: { description: string }) => {
 const [isExpanded, setIsExpanded] = useState(false);
 const toggleDescription = () => {
   setIsExpanded((prev) => !prev); // Toggles the expanded state
 };
  return (
   {isExpanded ? description : `${description.slice(0, 100)}...`}
       onClick={toggleDescription}
       className="text-blue-500 cursor-pointer ml-1"
       {isExpanded ? "Show Less" : "Read More"}
     </span>
   );
};
async function ProductPage() {
  const data = await getdata()
  console.log(data);
```

```
// Slice the first 4 products
const firstSectionProducts = data.slice(0, 4);
const secondSectionProducts = data.slice(4, 8);
const thirdSectionProducts = data.slice(8, 12);
const fourthSectionProducts = data.slice(12, 18);
  return (
    <div className="bg-gray-100 min-h-screen">
     {/* Product Section */}
     <main className="p-8">
       <h1 className="text-2xl font-bold mb-6">All Products</h1>
      <div className="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-4 gap-6">
                {firstSectionProducts.map((val:any, i:any) => (
                 <div key={i} className="rounded-lg shadow-md bg-white p-4">
                 <div className="relative h-64 mb-4">
                     src={val.productImage.asset.url}
                     alt={val.title}
                     className="h-full w-full object-cover rounded-lg"
                   {val.tags && val.tags[0] && (
                 className={`absolute top-2 left-2 px-2 py-1 text-xs font-medium
text-white rounded ${
                   val.tags[0].toLowerCase() === 'new'
                     ? 'bg-green-500'
                     : 'bg-red-500'
                 {val.tags[0]}
               </span>
             )}
                 </div>
                 {val.title}
                 <ProductDescription description={val.description} />
```

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### 5. Deliverables

- 1. Sanity CMS Dashboard showing imported products.
- 2. Console log confirming successful import.
- 3. Frontend product listing page.



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# **Conclusion:**

# Successfully completed the following:

- Imported API data into Sanity CMS.
- Built a functional frontend to display products fetched from Sanity.
- Validated the entire workflow, ensuring seamless integration between API, CMS, and frontend.

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