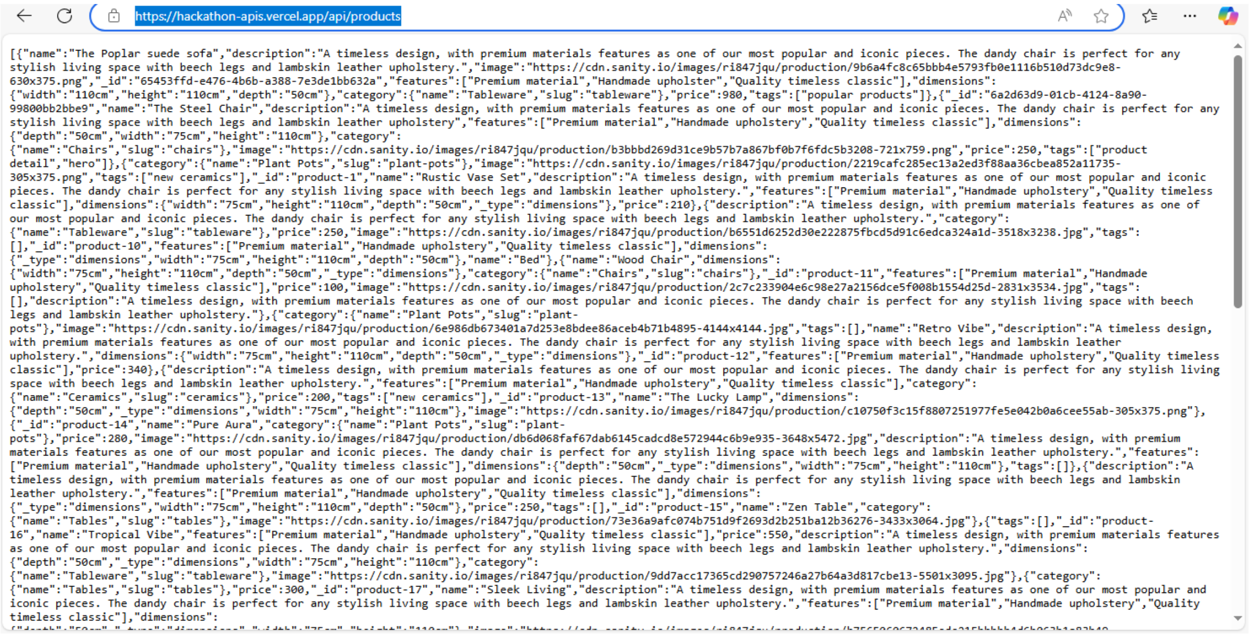
DAY 3 API INTEGRATION REPORT

STEP 1: CLONING THE UI/UX REPOSITORY

I started the project by cloning my UI/UX repository to my local environment. This repository served as the foundation for the project, containing all the necessary templates and design elements.

STEP 2: REVIEWING API RESPONSES

After cloning the repository, I analyzed the API responses to ensure they matched the requirements of my template. This step was crucial to verify that the API provided all the necessary data for the project.



```
[{"name":"The Poplar suede sofa","description":"A timeless design, with premium materials features as one of our most popular and iconic pieces. The dandy chair is perfect for any
stylish living space with beech legs and lambskin leather upholstery.","image":"https://cdn.sanity.io/images/ri847jqu/production/9b6a4fc8c65bbb4e5793fb0e1116b510d73dc9e8-
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stylish living space with beech legs and lambskin leather upholstery","features":["Premium material","Handmade upholstery","Quality timeless classic"],"dimensions":
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{"name":"Chairs","slug":"chairs"},"image":"https://cdn.sanity.io/images/ri847jqu/production/b3bbbd269d31ce9b57b7a867bf0b7f6fdc5b3208-721x759.png","price":250,"tags":["product
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305x375.png","tags":["new ceramics"],"_id":"product-1","name":"Rustic Vase Set","description":"A timeless design, with premium materials features as one of our most popular and iconic
pieces. The dandy chair is perfect for any stylish living space with beech legs and lambskin leather upholstery.","features":["Premium material","Handmade upholstery","Quality timeless
classic"],"dimensions":{"width":"75cm","height":"110cm","depth":"50cm","_type":"dimensions"},"price":210},{"description":"A timeless design, with premium materials features as one of
our most popular and iconic pieces. The dandy chair is perfect for any stylish living space with beech legs and lambskin leather upholstery.","category":
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[],"_id":"product-10","features":["Premium material","Handmade upholstery","Quality timeless classic"],"dimensions":
{"_type":"dimensions","width":"75cm","height":"110cm","depth":"50cm"},"name":"Bed"},{"name":"Wood Chair","dimensions":
{"width":"75cm","height":"110cm","depth":"50cm","_type":"dimensions"},"category":{"name":"Chairs","slug":"chairs"},"_id":"product-11","features":["Premium material","Handmade
upholstery","Quality timeless classic"],"price":100,"image":"https://cdn.sanity.io/images/ri847jqu/production/2c7c233904e6c98e27a2156dce5f008b1554d25d-2831x3534.jpg","tags":
[],"description":"A timeless design, with premium materials features as one of our most popular and iconic pieces. The dandy chair is perfect for any stylish living space with beech
legs and lambskin leather upholstery."},{"category":{"name":"Plant Pots","slug":"plant-
pots"},"image":"https://cdn.sanity.io/images/ri847jqu/production/6e986db673401a7d253e8bdee86aceb4b71b4895-4144x4144.jpg","tags":[],"name":"Retro Vibe","description":"A timeless design,
with premium materials features as one of our most popular and iconic pieces. The dandy chair is perfect for any stylish living space with beech legs and lambskin leather
upholstery.","dimensions":{"width":"75cm","height":"110cm","depth":"50cm","_type":"dimensions"},"_id":"product-12","features":["Premium material","Handmade upholstery","Quality timeless
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space with beech legs and lambskin leather upholstery.","features":["Premium material","Handmade upholstery","Quality timeless classic"],"category":
{"name":"Ceramics","slug":"ceramics"},"price":200,"tags":["new ceramics"],"_id":"product-13","name":"The Lucky Lamp","dimensions":
{"depth":"50cm","_type":"dimensions","width":"75cm","height":"110cm"},"image":"https://cdn.sanity.io/images/ri847jqu/production/c10750f3c15f8807251977fe5e042b0a6cee55ab-305x375.png"},
{"_id":"product-14","name":"Pure Aura","category":{"name":"Plant Pots","slug":"plant-
pots"},"price":280,"image":"https://cdn.sanity.io/images/ri847jqu/production/db6d068faf67dab6145cadcd8e572944c6b9e935-3648x5472.jpg","description":"A timeless design, with premium
materials features as one of our most popular and iconic pieces. The dandy chair is perfect for any stylish living space with beech legs and lambskin leather upholstery.","features":
["Premium material","Handmade upholstery","Quality timeless classic"],"dimensions":{"depth":"50cm","_type":"dimensions","width":"75cm","height":"110cm"},"tags":[]},{"description":"A
timeless design, with premium materials features as one of our most popular and iconic pieces. The dandy chair is perfect for any stylish living space with beech legs and lambskin
leather upholstery.","features":["Premium material","Handmade upholstery","Quality timeless classic"],"dimensions":
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16","name":"Tropical Vibe","features":["Premium material","Handmade upholstery","Quality timeless classic"],"price":550,"description":"A timeless design, with premium materials features
as one of our most popular and iconic pieces. The dandy chair is perfect for any stylish living space with beech legs and lambskin leather upholstery.","dimensions":
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{"name":"Tables","slug":"tables"},"price":300,"_id":"product-17","name":"Sleek Living","description":"A timeless design, with premium materials features as one of our most popular and
iconic pieces. The dandy chair is perfect for any stylish living space with beech legs and lambskin leather upholstery.","features":["Premium material","Handmade upholstery","Quality
timeless classic"],"dimensions":
```
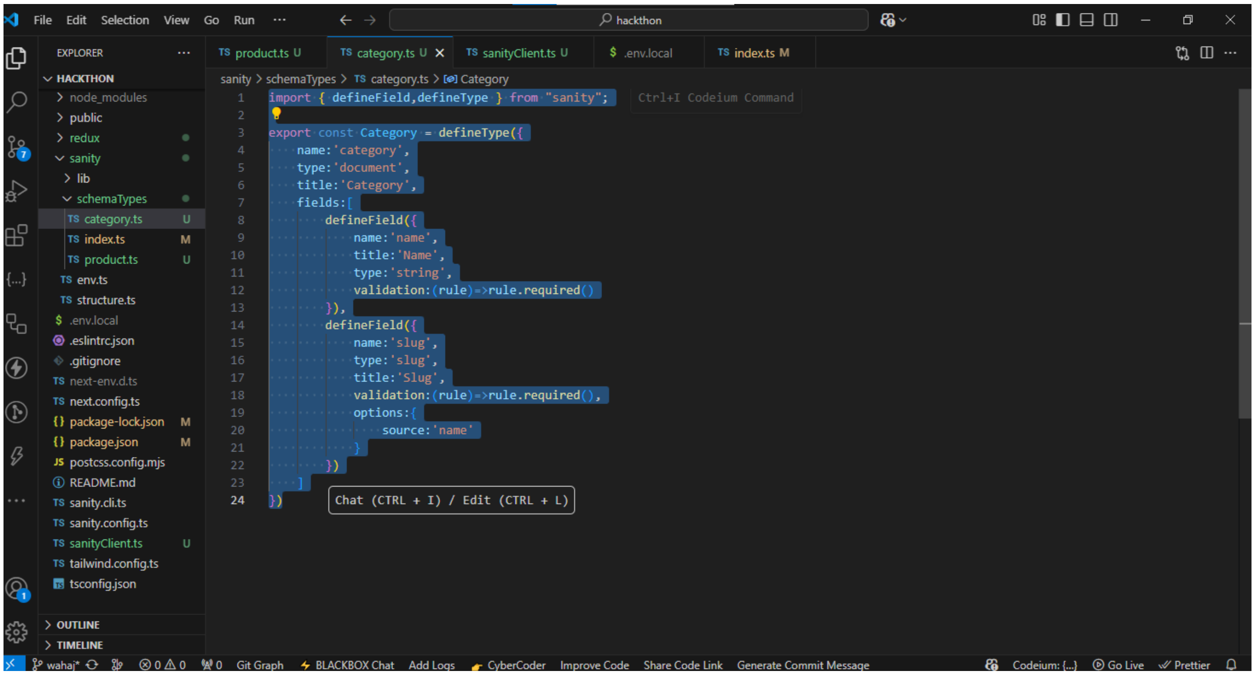
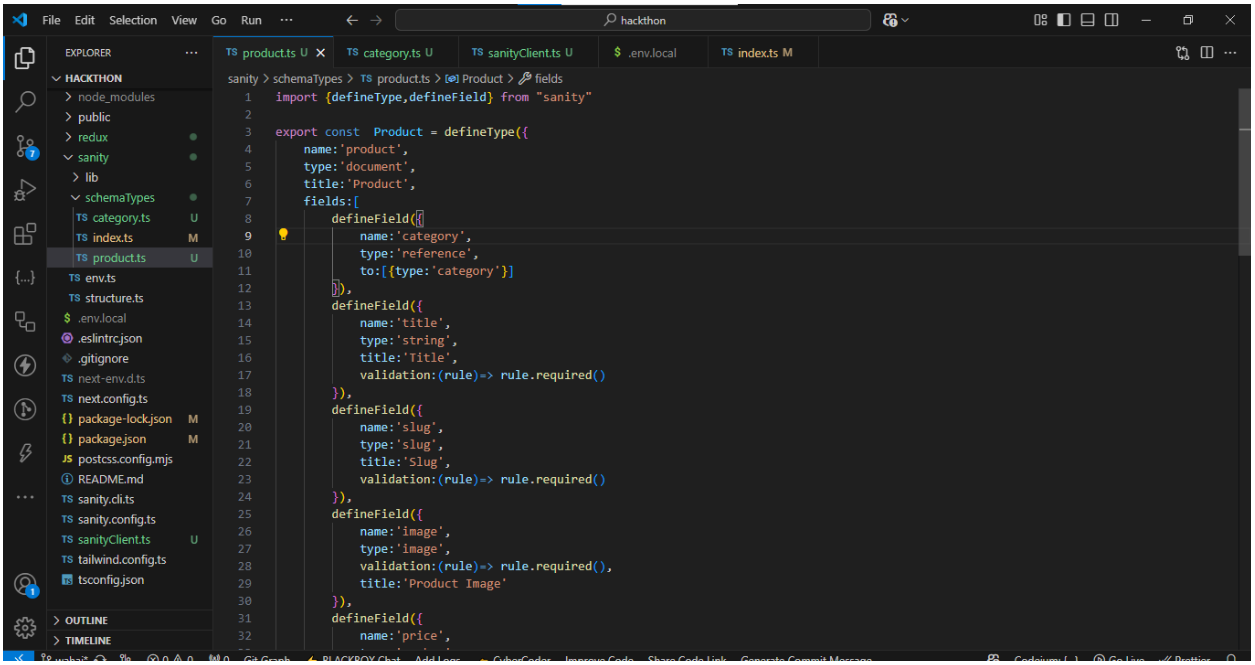

STEP 3: DESIGNING SCHEMAS

I proceeded to design the schemas for the Sanity project. These schemas defined the structure of the data, ensuring it aligned with the requirements of the template and API responses.



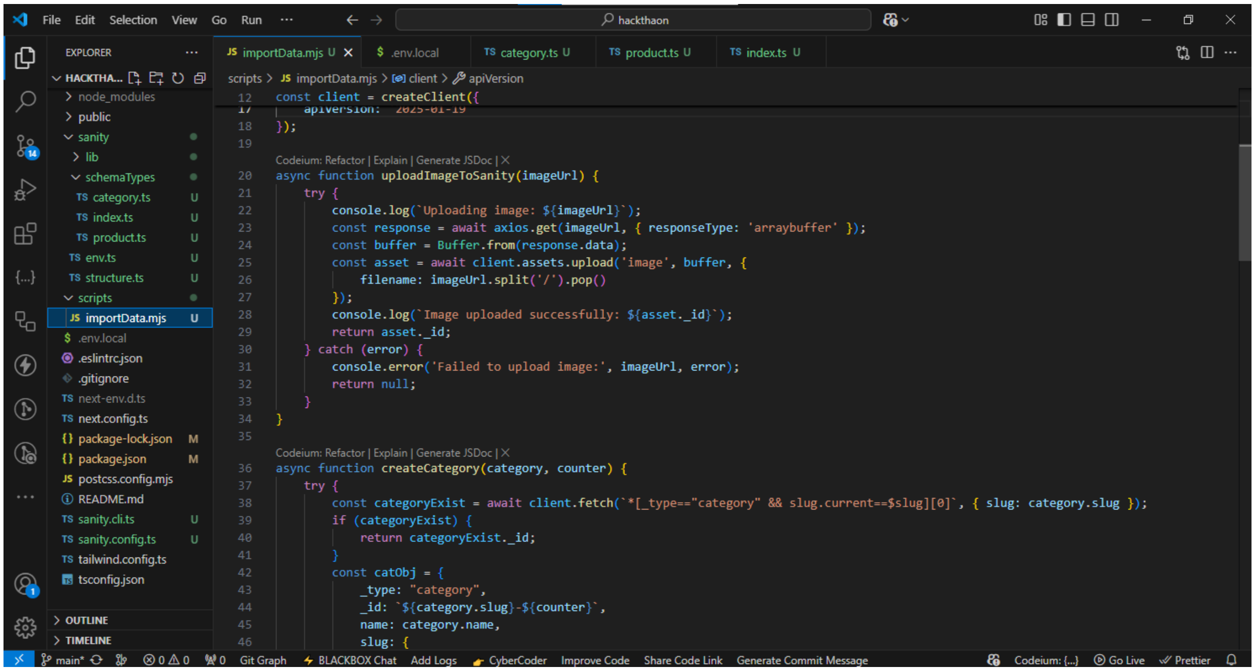
```
import { defineField,defineType } from "sanity";

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



```
import {defineType,defineField} from "sanity"

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

STEP 4: WRITING MIGRATION SCRIPTS

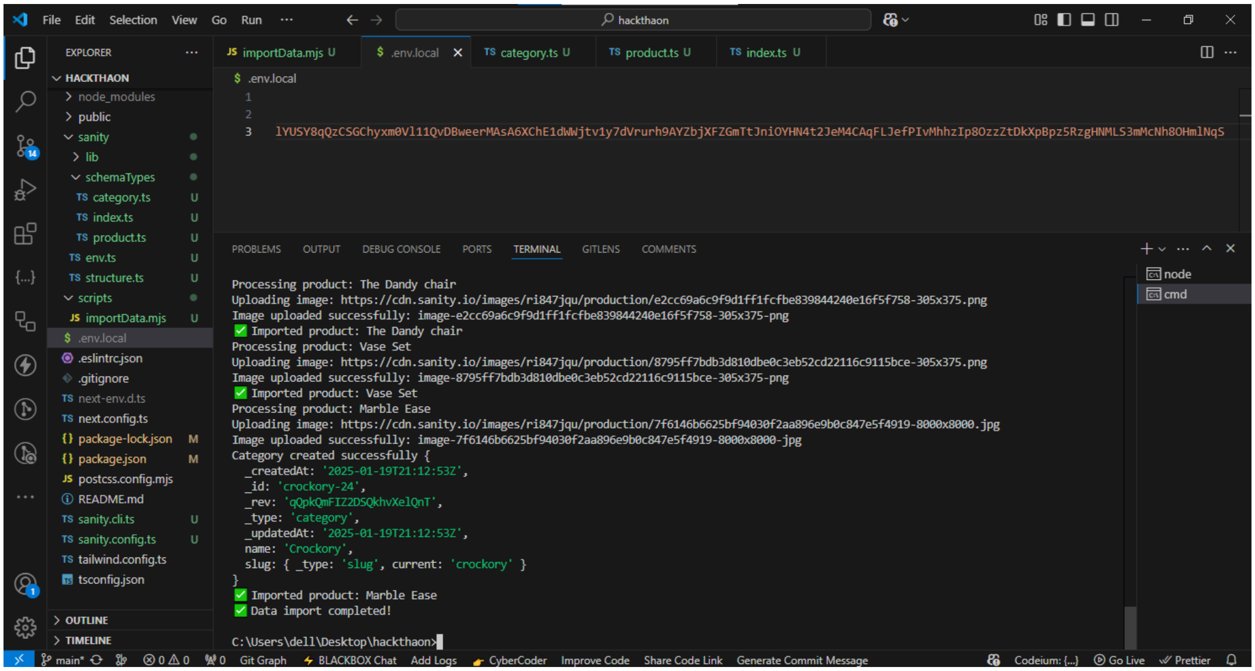
Once the schemas were ready, I wrote migration scripts to populate the database with initial data. These scripts streamlined the process of importing data into the Sanity CMS.



```
const client = createClient({
  apiVersion: '2025-01-19'
});

Codeium: Refactor | Explain | Generate JSDoc | ×
async function uploadImageToSanity(imageUrl) {
    try {
        console.log(`Uploading image: ${imageUrl}`);
        const response = await axios.get(imageUrl, { responseType: 'arraybuffer' });
        const buffer = Buffer.from(response.data);
        const asset = await client.assets.upload('image', buffer, {
            filename: imageUrl.split('/').pop()
        });
        console.log(`Image uploaded successfully: ${asset._id}`);
        return asset._id;
    } catch (error) {
        console.error('Failed to upload image:', imageUrl, error);
        return null;
    }
}

Codeium: Refactor | Explain | Generate JSDoc | ×
async function createCategory(category, counter) {
    try {
        const categoryExist = await client.fetch(`*[_type=="category" && slug.current==$slug][0]`, { slug: category.slug });
        if (categoryExist) {
            return categoryExist._id;
        }
        const catObj = {
            _type: "category",
            _id: `${category.slug}-${counter}`,
            name: category.name,
            slug: {
```

STEP 5: VERIFYING DATA IMPORT

I tested the data import functionality to confirm that all data was successfully imported into the Sanity CMS without any issues. This verification ensured that the system was ready for further development.

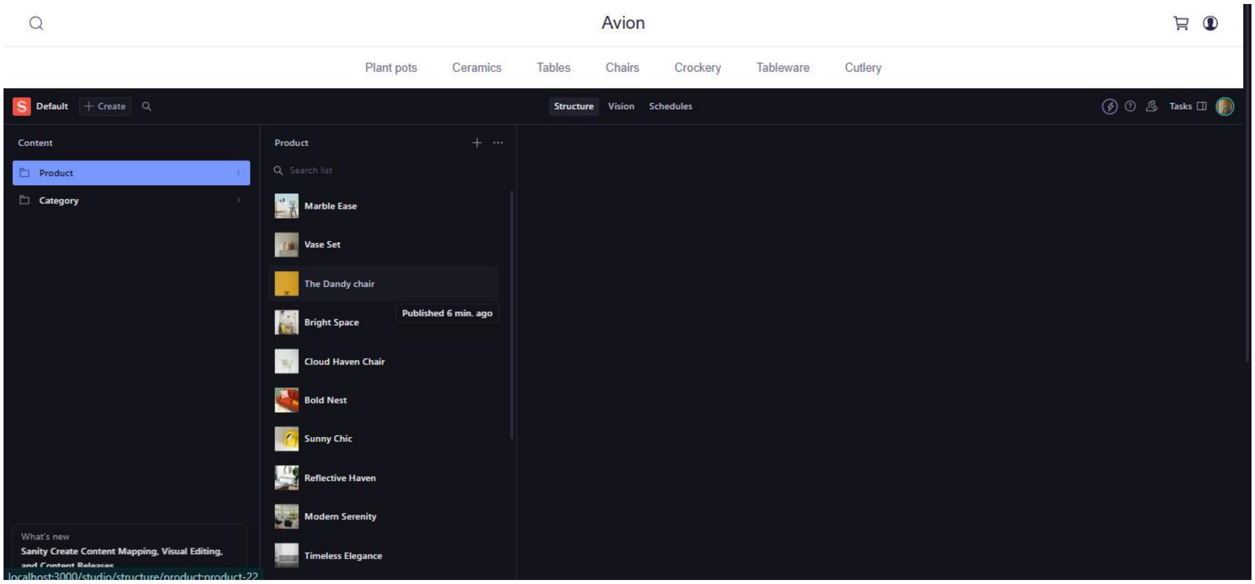


```
.env.local


lYUSY8qQzCSGChyxm0Vl11QvDBweerMAsA6XChE1dWWjtv1y7dVrurh9AYZbjXFZGmTtJniOYHN4t2JeM4CAqFLJefPIvMhhzIp8OzzZtDkXpBpz5RzgHNMLS3mMcNh8OHmlNqS
```

```
Processing product: The Dandy chair
Uploading image: https://cdn.sanity.io/images/ri847jqu/production/e2cc69a6c9f9d1ff1fcfbe839844240e16f5f758-305x375.png
Image uploaded successfully: image-e2cc69a6c9f9d1ff1fcfbe839844240e16f5f758-305x375-png
✅ Imported product: The Dandy chair
Processing product: Vase Set
Uploading image: https://cdn.sanity.io/images/ri847jqu/production/8795ff7bdb3d810dbe0c3eb52cd22116c9115bce-305x375.png
Image uploaded successfully: image-8795ff7bdb3d810dbe0c3eb52cd22116c9115bce-305x375-png
✅ Imported product: Vase Set
Processing product: Marble Ease
Uploading image: https://cdn.sanity.io/images/ri847jqu/production/7f6146b6625bf94030f2aa896e9b0c847e5f4919-8000x8000.jpg
Image uploaded successfully: image-7f6146b6625bf94030f2aa896e9b0c847e5f4919-8000x8000-jpg
Category created successfully {
  _createdAt: '2025-01-19T21:12:53Z',
  _id: 'crockory-24',
  _rev: 'qQpkQmFIZ2DSQkhvXelQnT',
  _type: 'category',
  _updatedAt: '2025-01-19T21:12:53Z',
  name: 'Crockory',
  slug: { _type: 'slug', current: 'crockory' }
}
✅ Imported product: Marble Ease
✅ Data import completed!

C:\Users\dell\Desktop\hackthaon>
```

STEP 6: FINAL RESULT

Now Finally all data import to Sanity Studio…/



Marble Ease

Vase Set

The Dandy chair

Bright Space

Published 6 min. ago

Cloud Haven Chair

Bold Nest

Sunny Chic

Reflective Haven

Modern Serenity

Timeless Elegance

What's new

Sanity Create Content Mapping, Visual Editing, and Content Releases

localhost:3000/studio/structure/product;product-22

STEP 7: SETTING UP REDUX TOOLKIT

Finally, I set up Redux Toolkit for state management within the project. This integration facilitated efficient handling of the application's state and improved data flow across components.