DAY_3

API INTEGRATION AND DATA MIGRATION

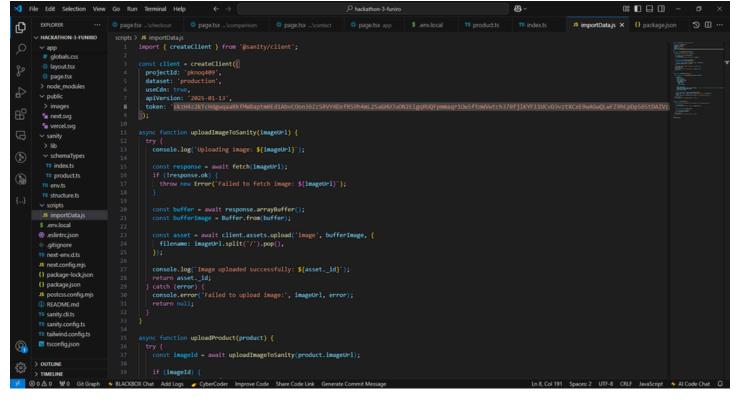
Objectives:

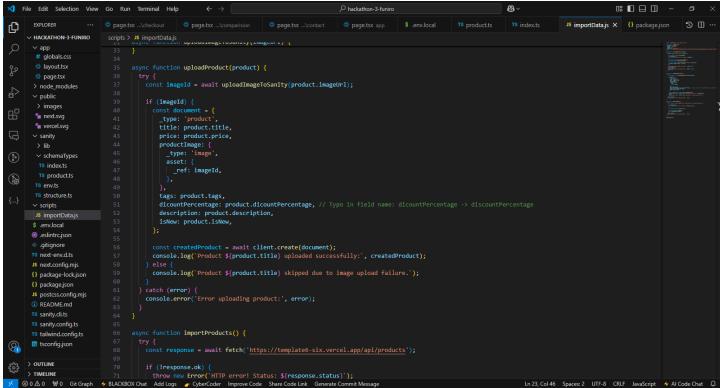
- Implement API integration within a Next.js application.
- Transfer data from external APIs into Sanity CMS.
- Ensure schemas are validated and synchronized with data sources.

Key Takeaways:

- Grasp API integration strategies and their implementation.
- Learn the steps involved in migrating data from APIs to CMS.
- Customize and validate schemas in Sanity CMS for seamless data compatibility.

Migration Script:





1. Sanity API Conguration:

- a. Connects to Sanity's API using a predened dataset and project ID, authenticated via an API token.
- b. Environment variables securely store sensitive data like project ID and dataset.

2. Data Retrieval from Sanity:

- a. GROQ queries fetch structured content from Sanity CMS.
- b. Retrieves product details such as categories, descriptions, and pricing.

3. Data Mapping and Adjustment:

a. Restructures the fetched data to match the application's schema for compatibility.

4. Database Insertion:

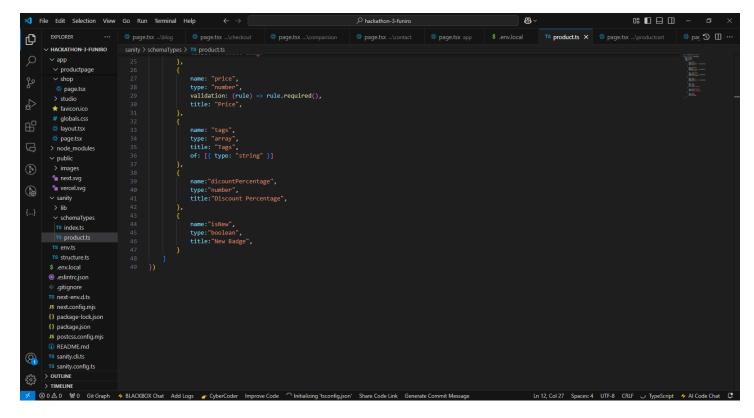
- a. Inserts data into the database via REST API or direct commands.
- b. Error handling ensures smooth migration without interruptions.

Schema Page Code:

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                                                                                                                                                                                                                                         TS product.ts X 🍪 page.tsx ...\productcart
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          EXPLORER
                                                      export const product = defineType({
   name: "product",
   title: "Product",
   type: "document",
   fields: [
             page.tsx
            * favicon.ico
           # globals.css
                                                                         name: "title",
title: "Title",
validation: (rule) => rule.required(),
           > images
                                                                          name: "description",
(
                                                                         validation: (rule) => rule.required(),
title:"Description",

∨ sanity

                                                                        name: "productImage",
type: 'inage',
validation: (rule) >> rule.required(),
+itle: "Product Image"
           TS index.ts
           TS structure.ts
         eslintrc.ison
                                                                        name: "price",
type: "number",
validation: (rule) => rule.required(),
title: "Price",
          gitignore
          JS next.config.mis
         {} package-lock.json
          {} package.json
                                                                         name: "tags",
type: "array",
title: "Tags",
of: [{ type: "string" }]
          JS postcss.config.mis
         TS sanity.config.ts
        > TIMELINE
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```



Title: name of the product.

Description: detail of the products.

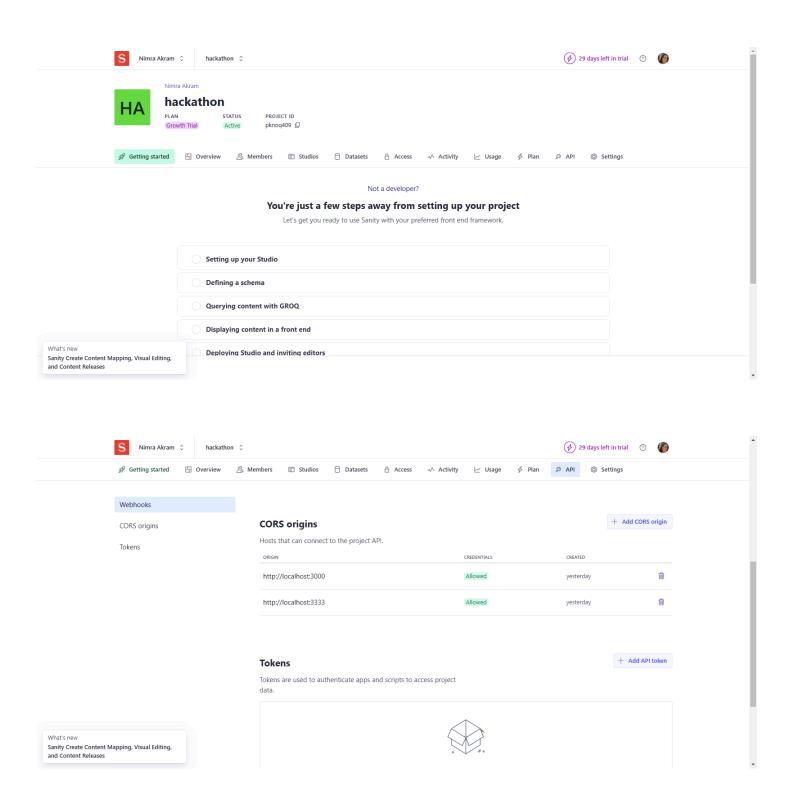
Product Image: field to save image of the products.

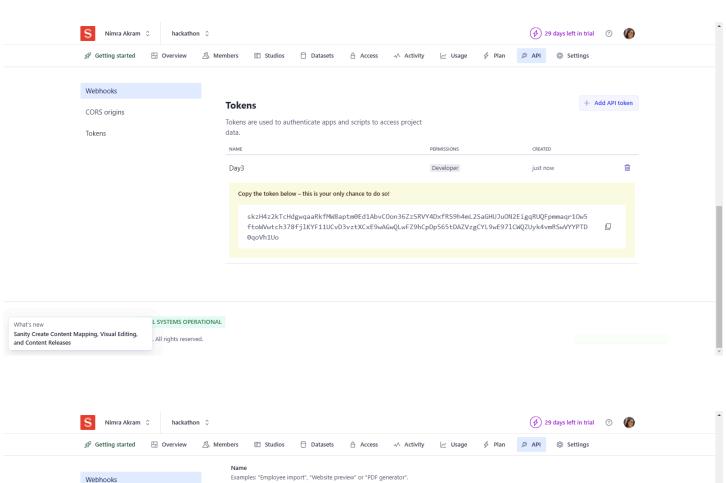
Price: field for the product cost.

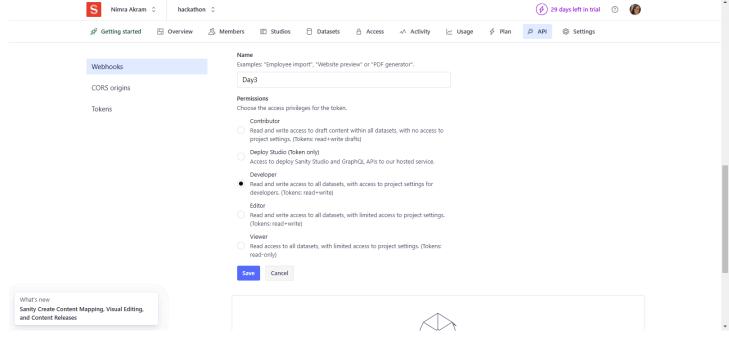
Tags: unique name for the products help in product searching and filtration.

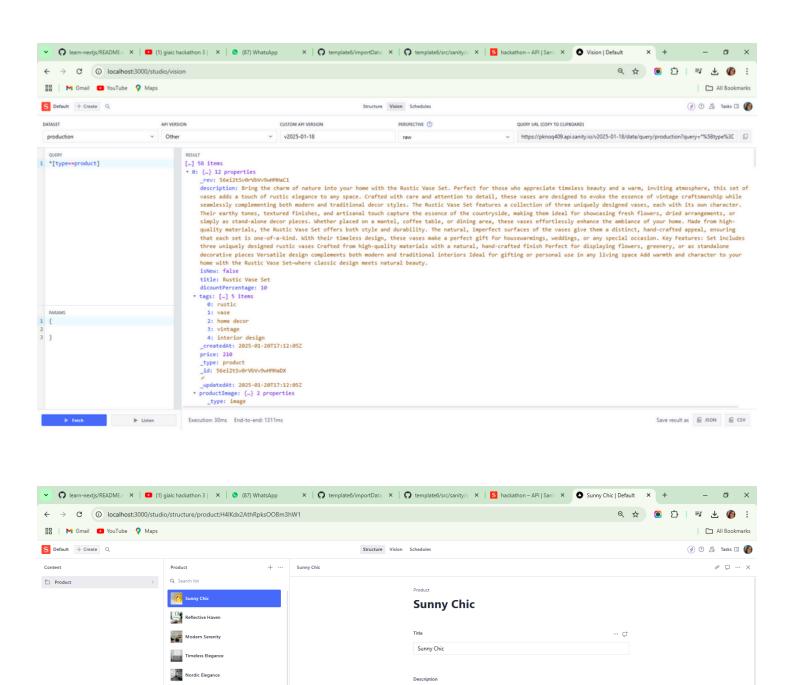
Discount Percentage: holds the value of the discount as a percentage.

Sanity Output:









Embrace the warmth of style with SunnyChic—a vibrant and contemporary collection designed to bring the cheerful essence of sunshine and chic elegance to your home. Whether you're brightening up a living room, bedroom, or outdoor space, SunnyChic infuses every corner with a refreshing burst of energy and a touch of sophisticated

Inspired by the warmth of sunny days and the laid-back yet stylish vibe of coastal

living. SunnyChic features bold colors, light fabrics, and breazy designs that capture the spirit of summer all year round. From sunny yellows and soft neutrals to playful patterns and textures, this collection effortlessly combines comfort with trendsetting

→ Publish ···

Fetch Products on UI:

What's new Sanity Create Content Mapping, Visual Editing, and Content Releases Serene Seat

Sleek Living

Tropical Vibe

Zen Table

Pure Aura

The Lucky Lamp

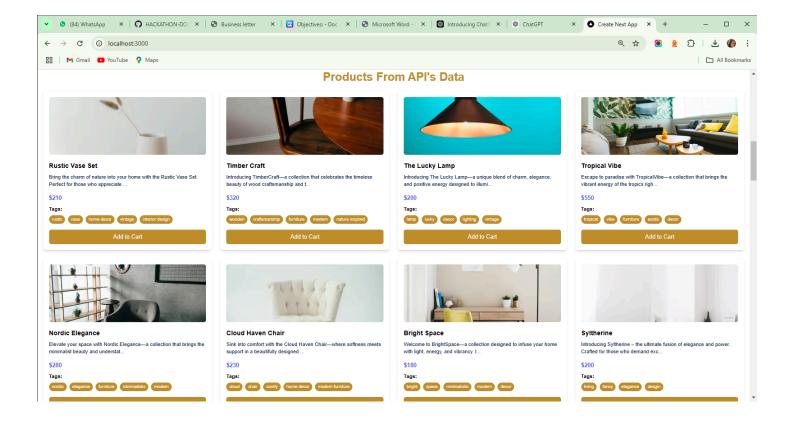
Retro Vibe

Wood Chair

Bed

Marble Ease

Published 14 min. ago



Day 3 Completed Successfully: The API integration and data migration process was successfully completed, including schema setup, data fetching from Sanity, and dynamic routing implementation for the marketplace