# Day 3 – API Integration and Data Migration:

### **API Integration Process**

#### 1. Reviewed API Documentation

- Examined the provided API documentation to understand its structure and available endpoints.
- o Identified the necessary endpoints for retrieving and managing data effectively.

#### 2. Executed Data Migration Script

- o Ran a custom script tailored to migrate data from the API into Sanity CMS.
- Confirmed the migration's success by verifying the populated fields in Sanity CMS.

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EXPLORER
                                                                {} package.json M
                                                                                                             TS sanity.cli.ts U
                                                                                                                                                       JS import-data.mjs U X
          ∨ HACKATHON-3-FINAL
                                                                script > JS import-data.mjs > 🗘 uploadImageToSanity
                                                                          import { createClient } from '@sanity/client';
import axios from 'axios';
import dotenv from 'dotenv';
import { fileURLTOPAth } from 'url';
import path from 'path';
              > node_modules

✓ script

                                                                         const _ filename = fileURLTOPath(import.meta.url);
const _ dirname = path.dirname(_ filename);
dotenv.config({ path: path.resolve(_ dirname, '../../.env') });

✓ src

                                                                           projectId: "qm8x995t",
dataset: "production",
token: "sk3NmMYNBSYSTisbb7pFTxQKXDpHgw12ebembPx7aL1j0juEQsdvZaPjePCDXXhYgbRuNsh08Ankg4nBoW7wJfdpmXD23AMQ3hk
                ✓ app
                                                                           apiVersion: '2025-01-15',
                   > about
                  > assets
                                                                          Codeium: Refactor|Explain|Generate JSDoc|X
async function uploadImageToSanity(imageUrl) {
    try {
                  > blog
                                                                              <u>-</u>છ
                  > components
                  > contact
                                                                              console.log(`Image Uploaded Successfully : ${asset._id}`);
return asset._id;
                  > faq
                  > fonts
                                                                              console.error('Failed to Upload Image:', imageUrl, error);
return null;
                  > login
                   > ordercomple...
                                                                          Codeium: Refactor | Explain | Generate JSDoc | X async function importData() { try {
                   > products
                                                                               console.log('Fetching Product Data From API ...');
                   > shop
                                                                              const response = await axios.get("https://next-ecommerce-template-4.vercel.app/api/product")
const products = response.data.products;
                   > shoplist
                                                                               for (const item of products) {
    console.log(`Processing Item: ${item.name}`);
              OUTLINE
                                                                                 let imageRef = null;
if (item.imagePath) {
   imageRef = await uploadImageToSanity(item.imagePath);
              TIMELINE
```

```
import-data.mjs / w uproadmagerosamty
> .next
                                          Codeium: Refactor | Explain | Generate JSDoc | × async function importData() {
> node_modules
                                              console.log('Fetching Product Data From API ...');
> public
                                              const response = await axios.get("https://next-ecommerce-template-4.vercel.app/api/product

✓ script

                                              const products = response.data.products;
 Js import-data.mjs
                                                console.log(`Processing Item: ${item.name}`);
∨ src
                                                let imageRef = null;
 ∨ app
                                                if (item.imagePath) {
                                                  imageRef = await uploadImageToSanity(item.imagePath);
   > about
   > assets
                                                const sanityItem = {
                                                 _type: 'product',
   > blog
                                                  name: item.name,
                                                  category: item.category || null,
                                                  price: item.price,
description: item.description || '',
   > components
   > contact
                                                  discountPercentage: item.discountPercentage || 0,
                                                  stockLevel: item.stockLevel | | 0,
   > faq
                                                  isFeaturedProduct: item.isFeaturedProduct,
                                                  image: imageRef
   > fonts
                                                        _type: 'image',
   > login
                                                         _type: 'reference',
   > ordercompleted
                                                          _ref: imageRef,
   ∨ products
    page.tsx
    \ chan
                                                console.log(`Uploading ${sanityItem.category} - ${sanityItem.name} to Sanity !`);
                                                const result = await client.create(sanityItem);
OUTLINE
                                                console.log(`Uploaded Successfully: ${result._id}`);
```

```
> public

✓ script

                                                            console.log(`Uploading ${sanityItem.category} - ${sanityItem.name} to Sanity !`);
          JS import-data.mjs
                                                            console.log(`Uploaded Successfully: ${result._id}`);
         ∨ src
                                                            console.log("-----
console.log("\n\n")

✓ app

             > about
                                                          console.log('Data Import Completed Successfully !');
                                                          catch (error) {
console.error('Error Importing Data : ', error);
             > assets
<u></u>⊚
             > blog
             > components
                                                      importData();
             > contact
```

### Changes in package.json

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             EXPLORER
                                                                                 TS product.ts
                                                     $ .env.local
                                                                                                                                           JS import-data.mjs
                                                                                                                                                                                {} package.jsc
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∨ HACKATHON3_DAY3

                                                      {} package.json > ...

✓ src

∨ sanity

                                                                > lib

∨ schemaTypes

                 TS index.ts
                 TS product.ts
                TS env.ts
                                                                },
"dependencies": {
                                                                 "@sanity/client": "^6.25.0",
"@sanity/image-url": "^1.1.0",
"@sanity/vision": "^3.70.0",
                TS structure.ts
             $ .env.local
                                                                 "axios": "^1.7.9",
"dotenv": "^16.4.7",
"next": "^13.1.0",
"next-sanity": "^9.8.39",
            eslintrc.json
             .gitattributes
                                                                 "react": "^18.0.0",
"react-dom": "^18.0.0",
"react-icons": "^5.4.0",
             .gitignore
            TS next-env.d.ts
                                                                 "sanity": "^3.70.0",
"styled-components": "^6.1.14"
            TS next.config.ts
                                                                },
"devDependencies": {
                                                                 "@types/react": "^20",
"@types/react": "^18",
"@types/react-dom": "^18",
            {} package-lock.json
            {} package.json
            JS postcss.config.mjs
                                                                  "postcss": "^8",
"tailwindcss": "^3.4.1",
"typescript": "^5"

 README.md

            TS sanity.cli.ts
          > OUTLINE
```

#### **Product Schemas**

- Made necessary modifications to the default schemas to align with the requirements of the migrated data.
- Updated the schema structure to ensure seamless compatibility with the API data format.

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              EXPLORER
                                                                                        TS product.ts X

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                                                         src > sanity > schemaTypes > TS product.ts > [∅] default > 🔑 fields > 🕤 valida
                                                                   export default {
  name: 'product',
  type: 'document',
  title: 'Product',
  fields: [

✓ src

                ∨ арр
                      signuppage
                  > singleblog
                                                                         name: 'name',
type: 'string',
title: 'Name',
validation: [Rule: any] -> Rule.required().error('Name is required'),
                  > studio
                  > wishlist
                  ★ favicon.ico
                                                                         name: 'image',
type: 'image',
title: 'Image',
options: {
  hotspot: true,
                  # globals.css
                  not-found.tsx
                  page.tsx

✓ sanity

                                                                          name: price;
type: 'string',
title: 'Price',
validation: (Rule: any) => Rule.required().error('Price is required'),
  Д
                  > lib

✓ schemaTypes

                                                                         TS index.ts
                  TS env.ts
                 TS structure.ts
(A)
                                                                          name: 'discountPercentage'.

✓ utils

                                                                          name: 'discountPercentage',
type: 'number',
title: 'Discount Percentage',
Codeium: Refactor | Explain | Generate |SDoc | X
validation: (Rule: amy) ->
| Rule.min(0).max(100).warning('Discount must be between 0 and 100.'),
            > OUTLINE
              TIMELINE
```

```
TS product.ts X TS index.ts
       Explorer (Ctrl+Shift+E)

→ HACKATHON3_DAY3

                                      src > sanity > schemaTypes > TS product.ts > \bigcirc default > \bigcirc fields > \bigcirc validation

✓ app
✓ signuppage
✓ signuppage

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            > singleblog
           > studio
           > wishlist
           * favicon.ico
           # globals.css
           mot-found.tsx
____
           page.tsx

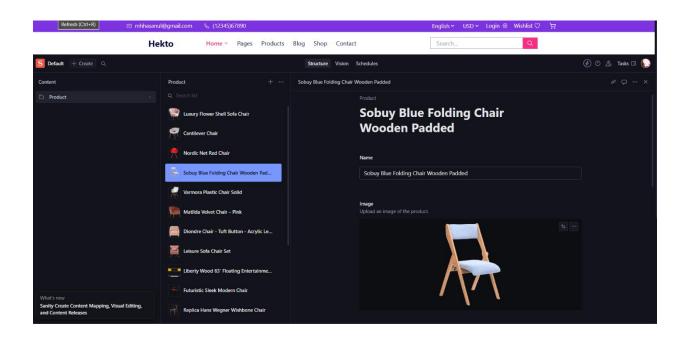
✓ sanity

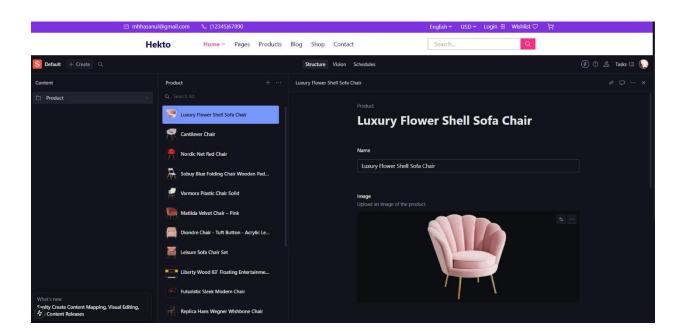
囚

✓ schemaTypes

          TS index.ts
           TS env.ts
           TS structure.ts
```

## Migrated Data in Sanity:





## **GROQ Query Implementation:**

