Hackathon Day 3 API integration

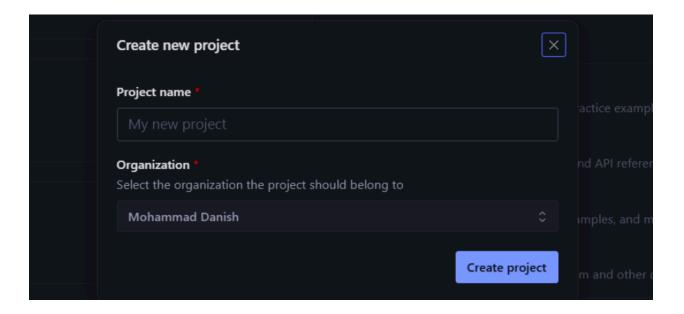
Nike General E Commerce website marketplace

API INTEGRATION PROCESS:

integrating APIs and managing data migration are essential skills in modern web development. Recently, I worked on a project that required migrating product data using **Sanity**, a powerful headless CMS. This guide will walk you through the process I followed to ensure a smooth and efficient migration.

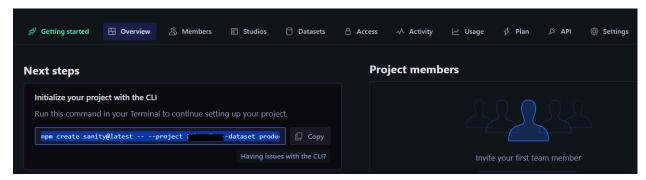
Step 1: Setting Up a Project in Sanity

The first step was to create a project in Sanity. I visited Sanity.io signed in, and set up a new project using their intuitive interface. This step established the foundation for integrating product data seamlessly.



Step 2: Running the Initialization Command

Once the project was created, Sanity provided an initialization command. I copied the command and ran it in my terminal to set up the necessary configuration files locally.



Copy cmd & paste into terminal

Step 3: Organizing the File Structure

After initialization, I structured my Next.js project for efficient development. To handle the data migration scripts separately, I created a folder named scripts (outside the src folder) and added a new file:

scripts/ImportSanityData.mjs

This file would contain the logic for data migration.

```
y scripts

JS import Link from 'next
import Link from 'next
import { addToCart } f

import Swal from 'swee
import Swal from 'swee

types

Tabnine | Edit | Explain
const BestOfAll = () =

TS products ts

Incoducts set

The products are s
```

Step 4: Adding Migration Code

Next, I pasted the migration script from **Sir Ameen Alam's** Day-3 documentation into ImportSanityData.mjs. This script handled the importing of product data into Sanity.

Additionally, I inserted the API URL in the script to establish a connection with Sanity's backend.

Step 5: Defining the Data Schema

To structure the product data correctly, I navigated to the Sanity project's schema folder and added a custom schema.

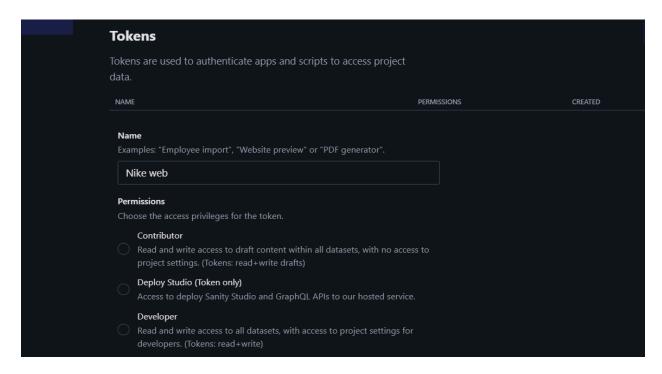
For example, a products. js schema was defined as follows:

```
src > sanity > schemaTypes > TS products.ts > [❷] productSchema
 1 export const productSchema = {
 name: 'product',
    title: 'Product',
    type: 'document',
    fields: [
    name: 'productName',
    title: 'Product Name',
    type: 'string',
    },
    name: 'slug',
    title: 'Slug',
    type: 'slug',
    options: {
    source: 'productName',
    maxLength: 96,
    },
    name: 'category',
    title: 'Category',
    type: 'string',
    },
26 name: 'price',
     ....title. 'Drice'
```

Step 6: Generating an API Token

To enable secure interactions with Sanity, I generated an **authentication token** from the Sanity project settings.

After copying the token, I stored it securely inside the .env.local file in my Next.js project:



Step 7: Executing the Data Migration

With everything set up, I initiated the data migration by running the following command in the terminal:

npm run import-data

This command executed the script inside **ImportSanityData.mjs**, triggering the data import into Sanity. Within moments, the product data began populating in my Sanity dashboard.

After running the command the process starts and data starts migrating from api to sanity:

```
Image uploaded successfully: image-257e162393cc8f3486965fd649496e3ef9fe23be-348x348-png
Uploading image: https://template-03-api.vercel.app/products/4.png

Image uploaded successfully: image-611df72a5b65db2f78d3119889a742c134480265-348x348-png
Uploading image: https://template-03-api.vercel.app/products/5.png

Image uploaded successfully: image-46998b7aa7bbf7d305755b2964da5bf167434d40-348x348-png
Uploading image: https://template-03-api.vercel.app/products/6.png

Image uploaded successfully: image-0618b5440becd53aced91c6de2bd3c84757be8d1-348x348-png
Uploading image: https://template-03-api.vercel.app/products/7.png

Image uploaded successfully: image-b039b2d23e832f1d29375236a80f613bc011dbc3-348x348-png
Data migrated successfully!
```

Step 8: Verifying Data in Sanity Studio

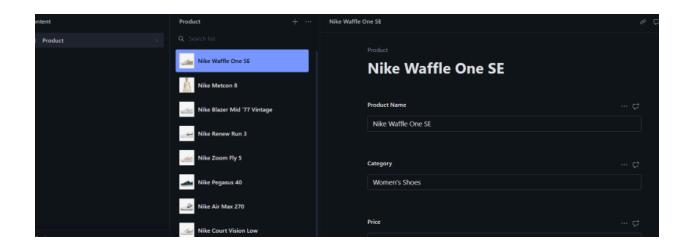
After the migration completed, I started the Next.js development server:

npm run dev

Then, I navigated to:

https://localhost:3000/studio

Here, I could see the successfully migrated product data inside Sanity Studio.



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