"Day 3 - API Integration Report - [Muniba e-shop]"

Understand the Provided API:

The given api for template 2 is: https://hackathon-apis.vercel.app/api/products

I test the api through thunderstorm extension

Identified given end points:

o Product listings (i.e, /products)

Validate and Adjust Your Schema:

- Compare your existing Sanity CMS schema (created on Day 2) with the API data structure.
- Adjust field names, types, and relationships to ensure compatibility and remove extra fields like discountpercentage and replace id with slug.

API integration process:

Here, I use the given api of template 2 with the process of importing from writing script file in scripts folder: scripts>importData.mjs (i convert typescript given file to mjs format).

Adjustments made to schemas:

I am using the given schemas, where I make changes in slug field:

.replace(/\s+/g, '-') // Replace spaces with dashes

```
defineField({
    name: "slug",
    title: "Slug",
    type: "slug",
    options: {
        source: "name", // Replace 'name' with the field you want to use as the source for slug generation
        maxLength: 200, // Optional: Limit the length of the generated slug
        slugify: (input) =>
        input
        .toLowerCase()
```

```
.replace(/[^a-z0-9-]/g, "), // Remove special characters
},
validation: (rule) => rule.required(),
}),
```

And make it able to generate slug from name field.

I also add another field of price_id , because I am using stripe for payment, stripe give us price_id for developers, so we work on it to get price from our data.

Migration steps and tools used:

With the help of this blog I migrate given api data to my sanity schema:

How to integrate External Data on Sanity in NextJS project.

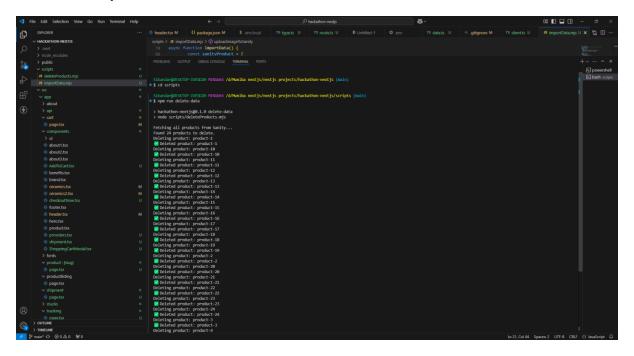
A step-by-step guide:

https://medium.com/@huzaifa3108hassan/integrating-sanity-with-next-js-a-guide-to-data-import-and-environment-setup-760eb41ea2a2

I also make deleteProduct.mjs file. If i need to delete all products because of any reason like to import new products in my sanity than in my nextjs project.

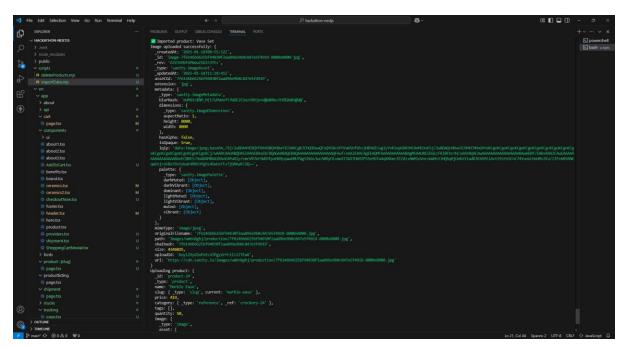
Screenshot of deleting products:

Command: npm run delete-data

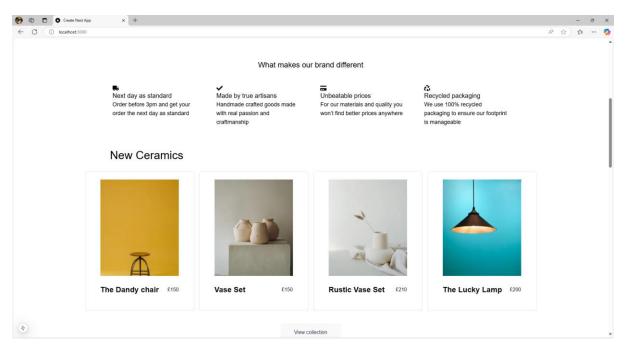


Screenshot of importing products:

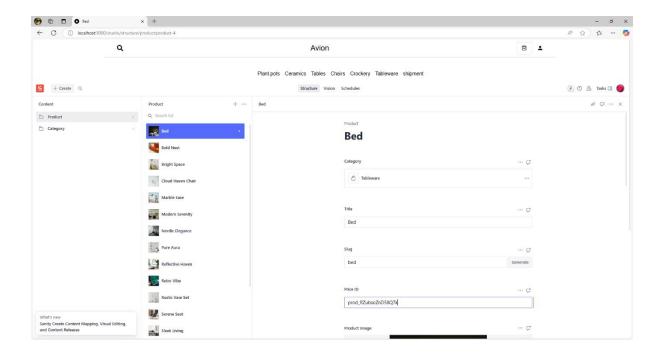
Command: npm run import-data



Data successfully displayed in the frontend:



Screenshot of Populated Sanity CMS fields.



Code snippets for API integration and migration scripts:

1- For importing data:

```
import { createClient } from '@sanity/client
import axios from 'axios'
import daten from 'adeten'
import df fileURLTOPAth } from 'url'
import ath from 'path'
import study from 'slugify';
 toad environment variables from vmv.tocat
const_filename = fileUNLTOPAth(import.metaurt)
const_dirmame = path.dirmame(_filename)
detenv.config({ path: path.resolve(_dirmame, '../.env.local') })
                     await client.createOrReplace(sanityProduct);
console.log(` Imported product: ${sanityProduct.name}');
```

2- For deleting data:

```
• • •
import { createClient } from '@sanity/client';
import dotenv from 'dotenv';
import { fileURLToPath } from 'url';
import path from 'path';
const __filename = fileURLToPath(import.meta.url);
const __dirname = path.dirname(__filename);
dotenv.config({ path: path.resolve(__dirname, '../.env.local') });
const client = createClient({
  projectId: process.env.NEXT_PUBLIC_SANITY_PROJECT_ID,
 dataset: process.env.NEXT_PUBLIC_SANITY_DATASET,
 token: process.env.SANITY_API_TOKEN,
});
async function deleteAllProducts() {
    console.log('Fetching all products from Sanity...');
    const products = await client.fetch('*[_type == "product"]{_id}');
    console.log(`Found ${products.length} products to delete.`);
    for (const product of products) {
      console.log(`Deleting product: ${product._id}`);
      await client.delete(product._id);
      console.log(`☑ Deleted product: ${product._id}`);
   console.log('All products deleted successfully!');
  } catch (error) {
    console.error('Error deleting products:', error);
deleteAllProducts();
```