DAY-3 API INTEGRATION REPORT – ThriftTreasures

API Integration Process:

Overview

The process of fetching data from an external API, storing it in Sanity, and using that data in a Next.js project. It covers environment setup, configuring Sanity, and uploading images.

Environment Setup:

- 1. Install dependencies: npm install axios @sanity/client
- 2. API END POINT: https://template6-six.vercel.app/api/products
- 3. API provides schema for the data, including fields like name, title, price, and image and description.

Key Variables:

SANITY_PROJECT_ID=<your-project-id> SANITY_DATASET=<your-dataset> SANITY_API_TOKEN=<your-api-token>

Error Handling

try-catch block to handle errors during data fetching.

Schema Adjustments

- 1. Field Renaming:
 - a. "productImage" was renamed to "image".
 - b. "tags" was removed, and "discountPercentage" and "isNew" were excluded.
- 2. Field Adjustments:
 - a. Renamed fields (e.g., "name" instead of "title").
 - b. Validation for price now includes a minimum value of 0.
- 3. Image Field Enhancement:
 - a. Added an options property with hotspot: true to enable image cropping.

SCHEMA SCREENSHOT:

```
src > sanity > schemaTypes > TS product.ts > [∅] product > [∅] fields > [∅] type
       import { defineType } from "sanity";
       export const product = defineType({
        name: "product",
         title: "Product",
         type: "document",
         fields: [
             name: "name",
             title: "Name",
             type: "string",
             validation: (Rule) => Rule.required(),
             name: "title",
             title: "Title",
             type: "string",
             validation: (Rule) => Rule.required(),
             name: "description",
             title: "Description",
             type: "text",
             validation: (Rule) => Rule.required(),
             name: "image", // Change field name to productImage
             title: "Product Image",
             type: "image", // Sanity image asset field
             options: {
               hotspot: true, // Enables image cropping
             name: "price",
             title: "Price",
             type: "number",
             validation: (Rule) => Rule.required().min(0),
```

Migration Steps and Tools Used

1. Installed Libraries:

a. Installed @sanity/client and axios for API integration and data handling.

2. Created env.local File:

a. Stored Sanity keys and sensitive information securely in .env.local.

3. Retrieved Product Data:

a. Fetched product data from an external API using axios.

4. Downloaded Images:

a. Used axios to download images and save them to Sanity as assets.

API CALL OUTPUT:

```
name: [DANNOW] Nomes T Birt Casual Cutton Short;
price: 12-7;
title: "Danier Casual Cutton Short;
price: 12-7;
title: "Danier Casual Cutton Short;
price: 12-7;
title: "Danier Casual Cutton Short Slaves, Letter Print, Wheck, Fashion Tess, The fabric is soft and has some stretch., Occasion: Casual/Office/Beach/School/Home/Street. Season: Spring, Samer, Annual, Mister.'
imaged: "International Casual Casual Cutton Short Slaves, Letter Print, Wheck, Fashion Tess, The fabric is soft and has some stretch., Occasion: Casual/Office/Beach/School/Home/Street. Season: Spring, Samer, Annual Casual Casua
```

FRONTEND DISPLAY:

Featured Products

BESTSELLER PRODUCTS

Problems trying to resolve the conflict between



BIYLACLESEN Women's 3-in-1 Snowboard Jacket

Jacket Winter Coats

\$56.99



Rain Jacket Women Windbreaker Striped Climbing Raincoats

Rain Jacket Women \$39.99

...



MBJ Women's Solid Short Sleeve Boat Neck

Short Sleeve Boat Neck V

\$9.85



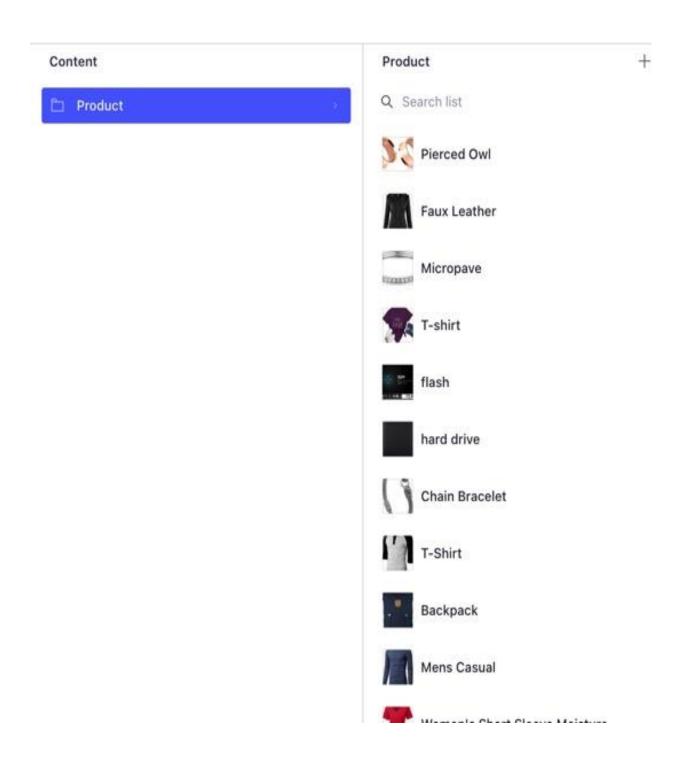
Opna Women's Short Sleeve Moisture

Women's Short Sleeve Moisture

\$7.95

...

SANITY CMS FIELDS:



CODE SNIPPET:

API INTEGRATION:

```
const response = await axios.get('https://template6-six.vercel.app/api/products');
const products = response.data;
```

SNIPPETS OF MIGRATION SCRIPS:

```
import axios from 'axios';
import { client } from './sanityClient.js';
async function uploadImageToSanity(imageUrl: string): Promise<string> {
      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(), // Extract the filename from URL
      });
// Debugging: Log the asset returned by Sanity
console.log('Image uploaded successfully:', asset);
   } catch (error) {
  console.error('X Failed to upload image:', imageUrl, error);
async function importData() {
         const response = await axios.get('https://template6-six.vercel.app/api/products');
const products = response.data;
          // Iterate over the products
for (const product of products) {
  let imageRef = '';
             // Upload image and get asset reference if it exists if (product.image) ( % \left( 1\right) =\left( 1\right) ^{2}
                imageRef = await uploadImageToSanity(product.image);
              const sanityProduct = {
                _id: 'product-${product.id}', // Prefix the IO to ensure validity _type: 'product',
                name: product.title,
price: product.price,
                 discountPercentage: product.discountPercentage || 0, tags: product.category ? [product.category] : [],
                 image: (
                   image: {
    type: 'image',
    asset: {
        type: 'reference',
        _ref: imageRef, // Set the correct asset reference ID
},
                description: product.description,
rating: product.rating?.rate || 0,
ratingCount: product.rating?.count || 0,
            };
// Log the product before attempting to upload it to Sanity
comsole.log('Uploading product:', sanityProduct);
// Import data into Sanity
             await client.createOrReplace(sanityProduct);
console.log(  Imported product: ${sanityProduct.name});
          console.log('♥ Data import completed!');
      ) catch (error) {
  console.error('X Error importing data:', error);
importData();
```

FINAL CHECK LIST:

			API	
API	SCHEMA	DATA	INTEGRATION	SUBMISSION
UNDERSTANDING	VALIDATION	MIGRATION	IN NEXTJS	PREPARATION

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V	V	V	V	V