

API Integration and Data Migration Report

Day: 3 - API Integration and Data Migration

API Integration Process

1. Setup and Configuration:

- Installed required dependencies like:
 - npm install
 - npm install dotenv etc
- Configured the Sanity client with project-specific credentials in the environment file.

2. Data Fetching:

- Utilized GROQ queries to fetch data from Sanity CMS.
- Implemented dynamic API routes in Next.js to interact with Sanity endpoints.

3. Frontend Integration:

- Retrieved data using the configured API endpoints.
- Displayed fetched data in styled components on the frontend.

4. Error Handling:

- Implemented error handling mechanisms for API requests to ensure stability.
- Logged errors to the console for debugging during development.

Product Schema

Product Schema:

- Defined fields such as title, description, price, and image.
- Ensured all required fields are included to match frontend requirements.

Migration Steps and Tools Used

Export Data:

- Exported existing data from the source system in JSON format.

Sanity Import Tool:

- Utilized Sanity's CLI import tool to migrate data.
- Command: `sanity dataset import <file.json> production.`

Verification:

- Verified the integrity of imported data using GROQ queries.
- Ensured data fields matched the schema definitions.

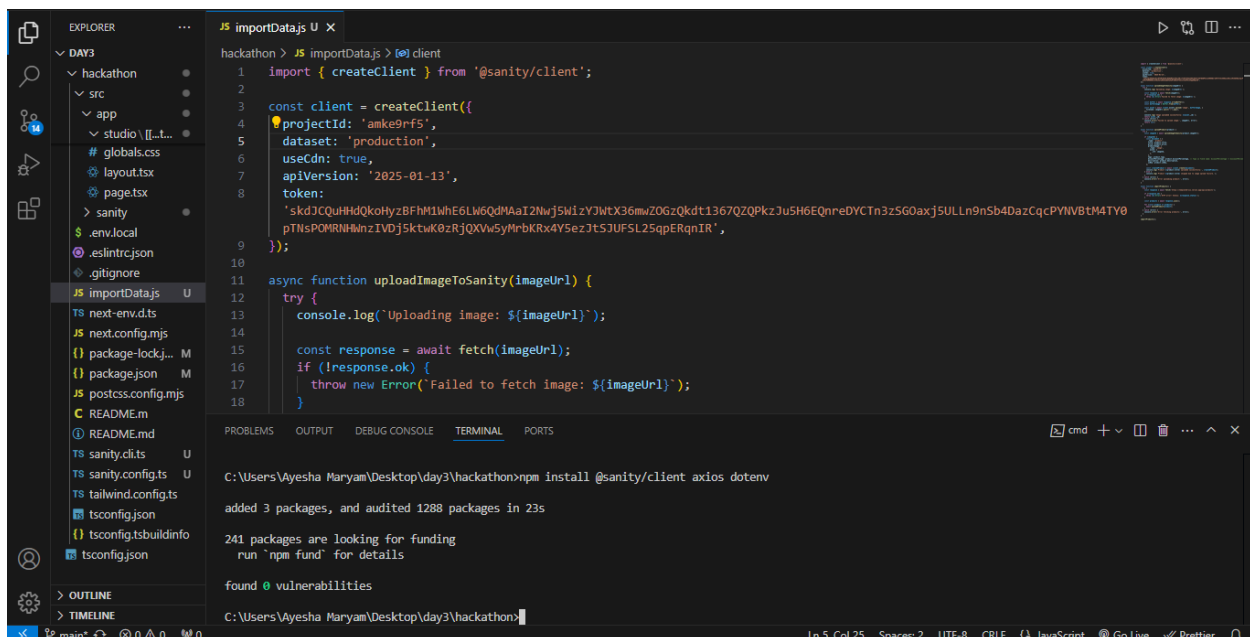
Frontend Updates:

- Updated components to ensure compatibility with migrated data.

Screenshots

- **API Calls:** Screenshots showcasing successful API requests and responses.
- **Frontend Display:** Visual representation of data rendered on the frontend.
- **Sanity CMS Fields:** Screenshots of populated fields within the Sanity Studio.

Code Snippets



```

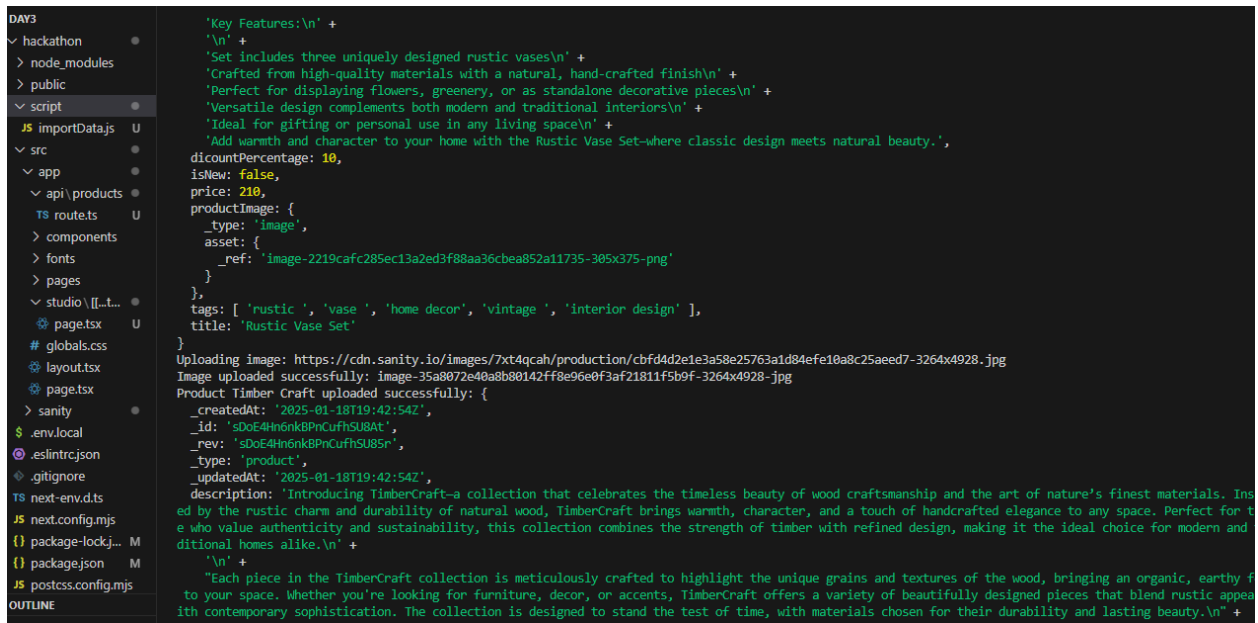
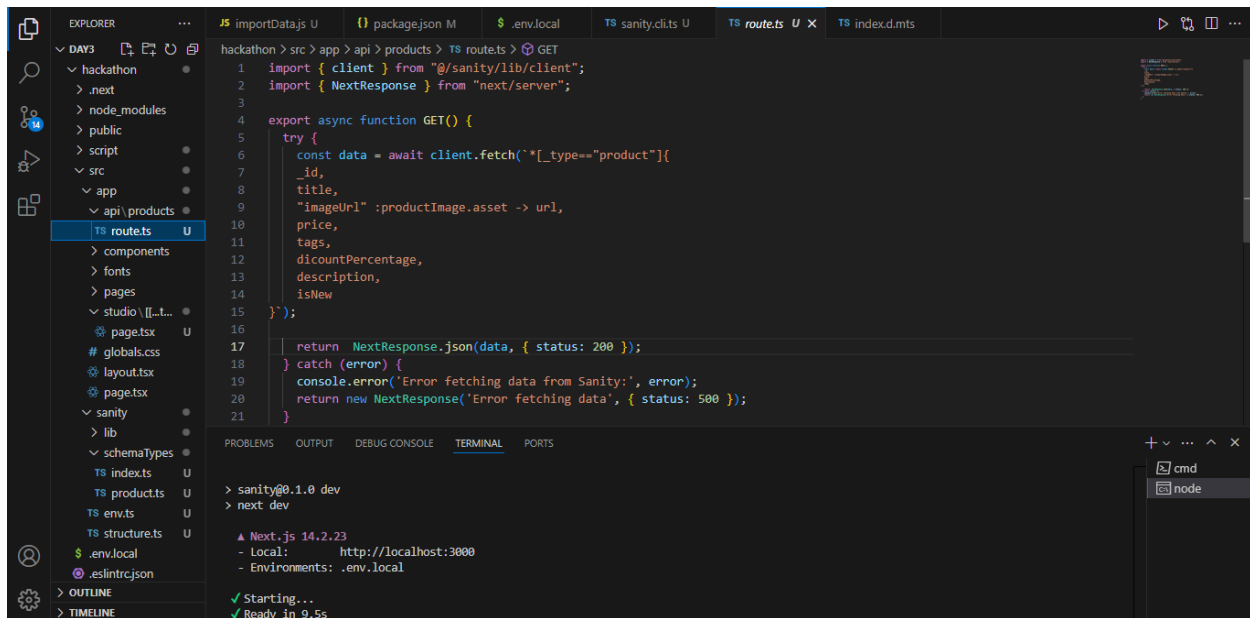
JS importData.js U X
hackathon > JS importData.js > [0] client
1 import { createClient } from '@sanity/client';
2
3 const client = createClient({
4   projectId: 'amke9rfs',
5   dataset: 'production',
6   useCdn: true,
7   apiVersion: '2025-01-13',
8   token:
9     'skdJCQuHidQkoHyZBFHm1whE6LW6QdMAaI2NwJ5WizYJWtX36mwZOGzQkdt1367QZQPkzJu5H6EQnreDYCTn3z5G0axj5ULLn9nSb4DazCqCqPVNVBtM4TY0
10     pTNSPOMRIH#anzIVDj5ktwK0zRjQXVwSyMrbKRx4Y5ez3tSjUFSL25qpERqnIR',
11 });
12
13 async function uploadImageToSanity(imageUrl) {
14   try {
15     console.log(`Uploading image: ${imageUrl}`);
16
17     const response = await fetch(imageUrl);
18     if (!response.ok) {
19       throw new Error(`Failed to fetch image: ${imageUrl}`);
20     }
21   } catch (error) {
22     console.error(error);
23   }
24 }

```

```

C:\Users\Ayesha Maryam\Desktop\day3\hackathon>npm install @sanity/client axios dotenv
added 3 packages, and audited 1288 packages in 23s
241 packages are looking for funding
  run 'npm fund' for details
found 0 vulnerabilities
C:\Users\Ayesha Maryam\Desktop\day3\hackathon>

```



Default

+ Create

StructureVisionSchedules

DATASET

production

API VERSION

Other

CUSTOM API VERSION

v2025-01-18

PERSPECTIVE

raw

QUERY URL [COPY TO CLIPBOARD]

https://amke9rf5.api.sanity.io/v2025-01-18/data/query/p

QUERY

1

*[type==product]

PARAMS

What's new

Sanity Create Content Mapping, Visual Editing, and Content Releases

RESULT

[...] 58 items

0: {...} 12 properties

_createdAt: 2025-01-18T19:42:41Z

_type: product

_id: YTjpX7gIRs7VphrWQQzxvA

isNew: false

_updatedAt: 2025-01-18T19:42:41Z

discountPercentage: 10

tags: [...] 5 items

0: rustic

1: vase

2: home decor

3: vintage

4: interior design

productImage: {...} 2 properties

_type: image

asset: { } 1 property

Fetch

Listen

Execution: 22ms

End-to-end: 242ms

Save result as

JSON

CSV

S

Ayesha Maryam

hackathon

30 days left in trial

A

HA

Ayesha Maryam

hackathon

PLAN

Growth Trial

STATUS

Active

PROJECT ID

amke9rf5

Getting started

Overview

Members

Studios

Datasets

Access

Activity

Usage

Plan

API

Settings

Webhooks

CORS origins

Tokens

What's new

Sanity Create Content Mapping, Visual Editing, and Content Releases

GROQ-powered webhooks

HTTP callbacks to a given URL triggered by changes in your content lake

Learn more about webhooks

0 of 2 webhooks (2 included in plan)

Get more webhooks

There are no GROQ-powered webhooks in this project

Content

Product

Product

Search list

Syltherine

Vase Set

The Dandy chair

Bright Space

Cloud Haven Chair

Bold Nest

Amber Haven

Timber Craft

Rustic Vase Set

What's new

Sanity Create Content Mapping, Visual Editing, and Content Releases

Product

Bright Space

Product Image

Price

180

Tags

bright

Published 19 min. ago

Publish