

DAY 3: API INTEGRATION AND DATA MIGRATION

• Sanity Account Setup:

- Sign up for a Sanity account at [Sanity.io](https://sanity.io).
- Create a new project in the Sanity dashboard.

• API Token Generation:

- Go to the *API* section in your project settings and generate a new API token for secure access.

• Sanity Client Setup:

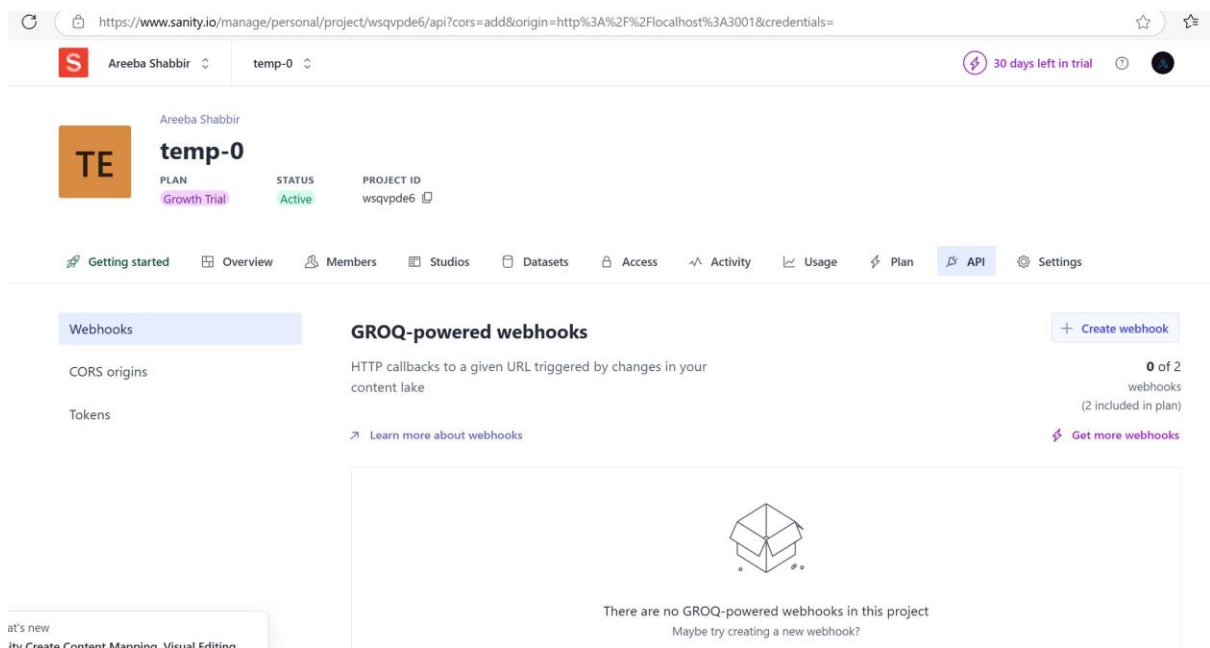
- Install the Sanity client in your project and configure it using the project ID and API token.

• Data Fetching:

- Use the Sanity client to fetch product, order, or user data for your project.

• Security:

- Keep your API token secure and avoid exposing it on the frontend. Use environment variables for sensitive data.



The screenshot displays the Sanity dashboard interface. At the top, the browser address bar shows the URL: `https://www.sanity.io/manage/personal/project/wsqvpe6/api?cors=add&origin=http%3A%2F%2Flocalhost%3A3001&credentials=`. The dashboard header includes the user profile 'Areeba Shabbir', the project name 'temp-0', and a '30 days left in trial' badge. Below the header, a navigation bar contains links for 'Getting started', 'Overview', 'Members', 'Studios', 'Datasets', 'Access', 'Activity', 'Usage', 'Plan', 'API' (highlighted), and 'Settings'. The main content area is titled 'GROQ-powered webhooks' and includes a '+ Create webhook' button. It explains that webhooks are 'HTTP callbacks to a given URL triggered by changes in your content lake'. A sidebar on the left lists 'Webhooks', 'CORS origins', and 'Tokens'. On the right, it shows '0 of 2 webhooks (2 included in plan)' and a 'Get more webhooks' link. The central area contains a large box with a cube icon and the message: 'There are no GROQ-powered webhooks in this project. Maybe try creating a new webhook?'.

The screenshot shows the Sanity dashboard for a project named 'temp-0'. At the top, the user 'Areeba Shabbir' is logged in, and a trial status indicates '30 days left in trial'. The project details show a 'Growth Trial' plan, 'Active' status, and project ID 'wsqvpde6'. The navigation bar includes links for Getting started, Overview (selected), Members, Studios, Datasets, Access, Activity, Usage, Plan, API, and Settings.

Next steps

Initialize your project with the CLI
Run this command in your Terminal to continue setting up your project.

```
npm create sanity@latest -- --project wsqvpde6 --dataset produi
```

[Copy](#)
[Having issues with the CLI?](#)

Usage

Usage	Limit
0 / 1m	44 / 250k API Requests
170.2 KB / 100 GB	

[View more](#)

Project members

[View all](#)

Invite your first team member
[+ Invite project members](#)

Activity

[View more](#)

API Jan 19 at 2:20 PM

Sanity Integration in My Project

1. Setting Up Sanity:

- I created a Sanity account and generated an API token to interact with my Sanity CMS.
- The Sanity client was installed and configured in my project using the project ID and API token.
-

2. Using data-migration.mjs:

- The data-migration.mjs file was created to automate the migration of product data into the Sanity CMS.
- It is used for importing product details (e.g., product names, images, and prices) into Sanity, streamlining the process of adding or updating multiple products at once.
-

3. Configuring product.ts:

- In product.ts, I defined the structure of my product data, including important fields like name, description, price, and images.
- The file also handles fetching product data from Sanity using queries and ensures proper data typing through TypeScript.
-

4. Data Migration Process:

- I ran the data-migration.mjs script to migrate product data into Sanity, allowing for easy management and updates of product information within the CMS.

EXPLORER

MY-FIGMA-PROJECT

next

node_modules

public

scripts

data-migration.mjs

src

app

sanity

lib

schemaTypes

index.ts

products.ts

env.ts

structure.ts

env.local

gitignore

eslint.config.mjs

next-env.d.ts

next.config.ts

package-lock.json

package.json

postcss.config.mjs

README.md

sanity.cli.ts

sanity.config.ts

tailwind.config.ts

tsconfig.json

OUTLINE

TIMELINE

NPM SCRIPTS

TS products.ts U

JS data-migration.mjs U X

TS index.ts U

scripts > JS data-migration.mjs > importData > response

```
37
38
39 console.log('Migrating data, please wait...');
40
41 // Fetch products from the API
42 const response = await axios.get('https://template-0-beta.vercel.app/api/product');
43 const products = response.data;
44
45 console.log('Products fetched:', products);
46
47 for (const product of products) {
48   let imageRef = null;
49
50   if (product.imagePath) {
51     imageRef = await uploadImageToSanity(product.imagePath);
52   }
53
54   const sanityProduct = {
55     _type: 'product',
56     id: product.id,
57     name: product.name,
58     category: product.category,
59     description: product.description,
60     discountPercentage: product.discountPercentage,
61     isFeaturedProduct: product.isFeaturedProduct,
62     stockLevel: product.stockLevel,
63     price: parseFloat(product.price),
64     image: imageRef
65   ? {
66     _type: 'image',
67     asset: {
68       _type: 'reference',
69       _ref: imageRef,
70     },
71   }
```

MY-FIGMA-PROJECT

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OUTLINE

TIMELINE

NPM SCRIPTS

src > sanity > schemaTypes > TS product.ts > default

```
1 export default {
2   name: 'product',
3   title: 'Product',
4   type: 'document',
5   fields: [
6     {
7       name: 'id',
8       title: 'ID',
9       type: 'string',
10    },
11    {
12      name: 'name',
13      title: 'Name',
14      type: 'string',
15    },
16    {
17      name: 'image',
18      title: 'Image',
19      type: 'image',
20    },
21    {
22      name: 'imagePath',
23      title: 'Image Path',
24      type: 'url',
25    },
26    {
27      name: 'price',
28      title: 'Price',
29      type: 'number',
30    },
31    {
32      name: 'description',
33      title: 'Description',
34      type: 'text',
35    },
36  ]
```

Uploading Images and Data to Sanity

1. Uploading Data:

- I successfully uploaded product data, including product names, descriptions, and pricing, to Sanity using the CMS interface and the `data-migration.mjs` script.
- The data is structured and stored within Sanity under appropriate document types (e.g., product details).
-

2. Uploading Images:

- I uploaded product images to Sanity's asset library, ensuring that they are linked to the respective products.
- The image URLs are now accessible and used in the product listings on the frontend.
-

3. Data and Image Management:

- All product data, including images, is now easily manageable and updateable through the Sanity dashboard, allowing for efficient content management.

