

API integration process

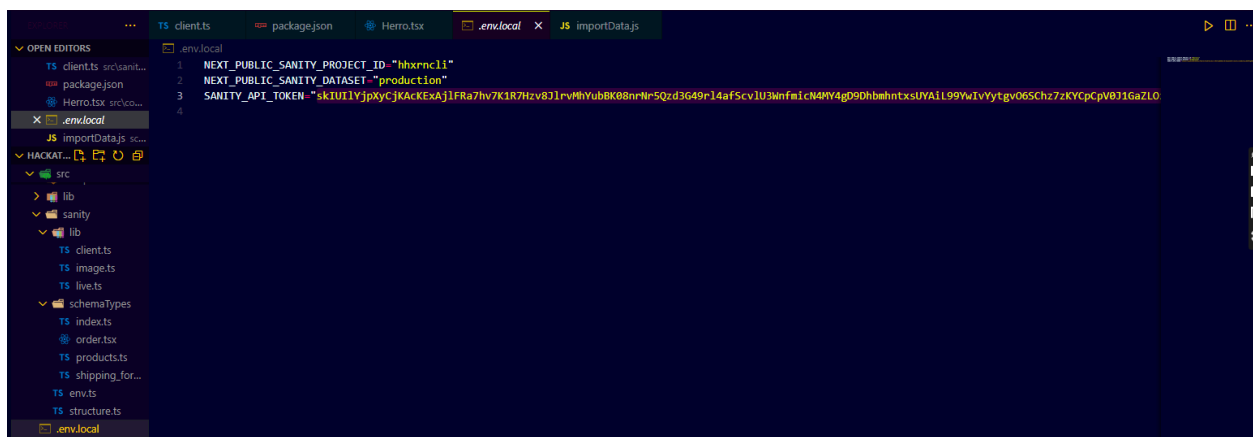
API Selection

- API : <https://template1-neon-nu.vercel.app/api/products>
- Purpose: Fetching products data.

Integration Steps

1. Setup:

- Installed required libraries (sanity, Axios,groq etc.).
- Configured environment variables in the .env file:



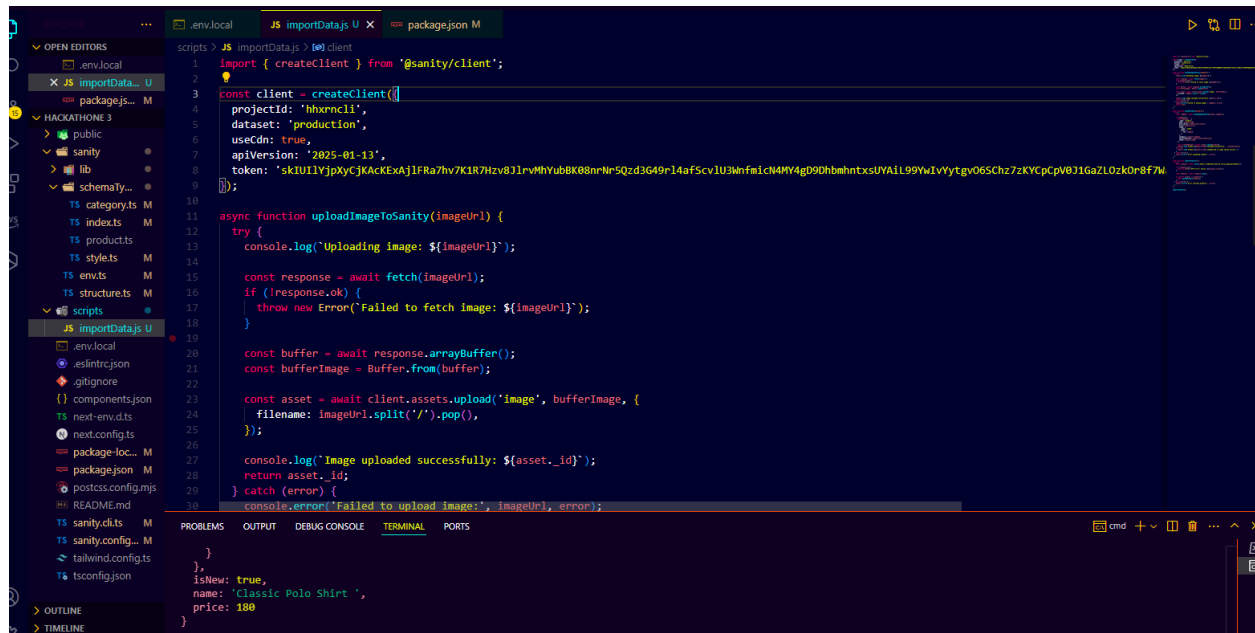
The screenshot shows a code editor with the following content:

```
1 NEXT_PUBLIC_SANITY_PROJECT_ID="lhxrnc11"  
2 NEXT_PUBLIC_SANITY_DATASET="production"  
3 SANITY_API_TOKEN="sk1U11YjpkycjKAcKExAjlFRa7hv7K1R7Hzv8J1rvMBYubBK88nrNrSQzd3G49r14afScv1U3Wnfm1cN4MY4gD9DhbmhtxsUYA1L999wIvYytgvO6SChz72KYCpCpV031GaZLO"  
4
```

The left sidebar shows the file explorer with the following structure:

- src
 - lib
 - sanity
 - lib
 - clients.ts
 - image.ts
 - live.ts
 - schemaTypes
 - index.ts
 - order.tsx
 - products.ts
 - shipping_for...
 - env.ts
 - structure.ts
- .env.local

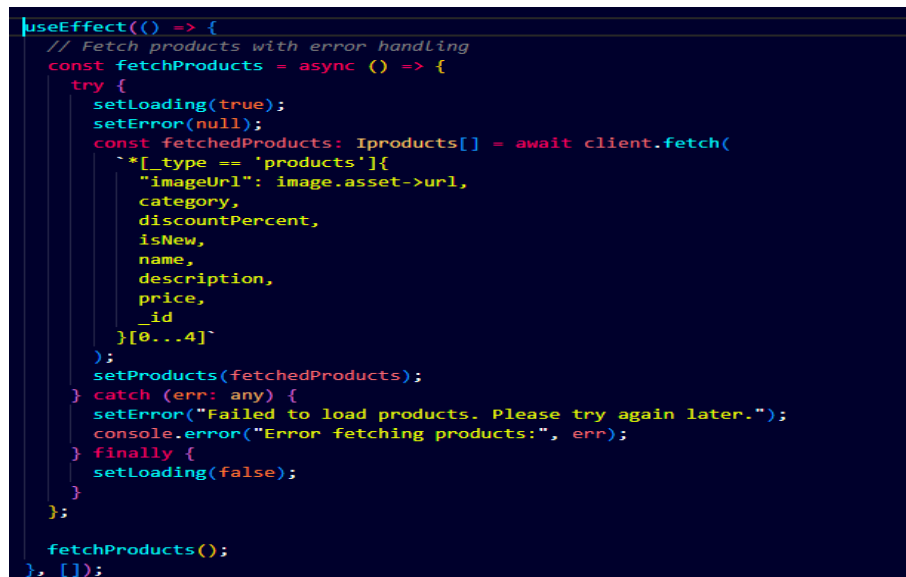
Importing data from the external api and migrate it to sanity



```
1 import { createClient } from '@sanity/client';
2
3 const client = createClient({
4   projectId: 'hxxrc11',
5   dataset: 'production',
6   useCdn: true,
7   apiVersion: '2025-01-13',
8   token: 'skIU1VjpxYcJKAcKExAjlFRa7hv7K1R7Hzv8JlrvMhYub8X08nrNr5Qzd3G49n14afScv1U3Mnfm1cN4MY4gD9DhbmhtxsUVAiL99Yw1vYytgv06SChz7zKYCpcp08J1GaZLOzkDr8F7W',
9 });
10
11 async function uploadImageToSanity(imageUrl) {
12   try {
13     console.log('Uploading image: ${imageUrl}');
14
15     const response = await fetch(imageUrl);
16     if (!response.ok) {
17       throw new Error('Failed to fetch image: ${imageUrl}');
18     }
19
20     const buffer = await response.arrayBuffer();
21     const bufferImage = Buffer.from(buffer);
22
23     const asset = await client.assets.upload('image', bufferImage, {
24       filename: imageUrl.split('/').pop(),
25     });
26
27     console.log('Image uploaded successfully: ${asset._id}');
28     return asset._id;
29   } catch (error) {
30     console.error('Failed to upload image:', imageUrl, error);
31   }
32 }
```

Fetching Data:

- Highlight the API endpoint used and error handling



```
useEffect(() => {
  // Fetch products with error handling
  const fetchProducts = async () => {
    try {
      setLoading(true);
      setError(null);
      const fetchedProducts: Iproducts[] = await client.fetch(
        `*[_type == 'products']{
          "imageUrl": image.asset->url,
          category,
          discountPercent,
          isNew,
          name,
          description,
          price,
          _id
        }[0...4]`
      );
      setProducts(fetchedProducts);
    } catch (err: any) {
      setError("Failed to load products. Please try again later.");
      console.error("Error fetching products:", err);
    } finally {
      setLoading(false);
    }
  };

  fetchProducts();
}, []);
```

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Migration steps and tool used(npm run import-data)

```
package.json / Dependencies
1 {
2   "name": "hammadshopco",
3   "version": "0.1.0",
4   "private": true,
5   "type": "module",
6   "scripts": {
7     "dev": "next dev --turbo",
8     "build": "next build",
9     "start": "next start",
10    "lint": "next lint",
11    "import-data": "node scripts/importData.js"
12  },
13  "dependencies": {
14    "@hookform/resolvers": "^3.10.0",
15    "@radix-ui/react-accordion": "^1.2.2",
16    "@radix-ui/react-checkbox": "^1.1.3",
17    "@radix-ui/react-dialog": "^1.1.2",
18    "@radix-ui/react-label": "^2.1.1",
19    "@radix-ui/react-navigation-menu": "^1.2.1",
20    "@radix-ui/react-slider": "^1.2.2",
21    "@radix-ui/react-slot": "^1.1.1",
22    "@reduxjs/toolkit": "^2.5.0",
23    "@sanity/client": "^6.27.1",
24    "@sanity/image-url": "^1.1.0",
25    "@sanity/vision": "^3.71.2",
26    "axios": "^1.7.9",
27    "class-variance-authority": "^0.7.1",
28    "clsx": "^2.1.1",
29    "dotenv": "^16.4.7",
30    "embla-carousel-react": "^8.5.1",
31    "framer-motion": "^11.13.5",
32    "lucide-react": "^0.468.0",
33    "next": "^14.2.21",
```

```
_createdAt: '2025-01-25T09:22:08Z',
_id: '0zPjWAGkHgZUBjxT41EVq5',
_rev: '0zPjWAGkHgZUBjxT41EVl1',
_type: 'products',
_updatedAt: '2025-01-25T09:22:08Z',
category: 'tshirt',
colors: [ 'White', 'Black', 'Green', 'Yellow' ],
description: 'Classic Polo Shirt\n' +
  '\n' +
  'Upgrade your wardrobe with this timeless classic polo shirt, perfect for any occasion. Crafted from premium-quality fabric, it offers a soft, breathable, and comfortable fit that lasts all day. Featuring a stylish collar, button placket, and short sleeves, this versatile polo blends elegance with a casual touch.\n' +
  '\n' +
  'Key features:\n' +
  '\n' +
  'Made with durable and lightweight material\n' +
  'Available in a variety of colors and sizes\n' +
  'Easy to pair with jeans, chinos, or shorts for a polished look\n' +
  'Ideal for work, casual outings, or weekend wear\n' +
  'Stay effortlessly stylish with this must-have polo shirt!',
discountPercent: 0,
image: {
  _type: 'image',
  asset: {
    _ref: 'image-fb62308b5fa5f6c0d5af2b40e5be28065c42454d-295x298-png'
  }
},
isNew: true,
name: 'Classic Polo Shirt ',
price: 180,
sizes: [ 'L', 'XXL', 'S', 'M' ]
}
```

E:\Q2-nextjs\classassignments\hackathone 3>

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```
✓ async function importProducts() {
✓   try {
      const response = await fetch('https://template1-neon-nu.vercel.app/api/products');

      if (!response.ok) {
        throw new Error(`HTTP error! Status: ${response.status}`);
      }

      const products = await response.json();

      for (const product of products) {
        await uploadProduct(product);
      }
    } catch (error) {
      console.error('Error fetching products:', error);
    }
  }

  importProducts();
}
```

S

Muhammad Hamad

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30 days left in trial

M

Getting started

Overview

Members

Studios

Datasets

Access

Activity

Usage

Plan

API

Settings

Webhooks

CORS origins

Tokens

Tokens

+ Add API token

Tokens are used to authenticate apps and scripts to access project data.

Name

Examples: "Employee import", "Website preview" or "PDF generator".

daythree

Permissions

Choose the access privileges for the token.

Contributor

☐ Read and write access to draft content within all datasets, with no access to project settings. (Tokens: read+write drafts)

Deploy Studio (Token only)

☐ Access to deploy Sanity Studio and GraphQL APIs to our hosted service.

Developer

☒ Read and write access to all datasets, with access to project settings for developers. (Tokens: read+write)

Editor

☐ Read and write access to all datasets, with limited access to project settings. (Tokens: read+write)

Viewer

☐ Read access to all datasets, with limited access to project settings. (Tokens: read-only)

Save

Cancel

ent Mapping, Visual Editing, ies

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CORS origins

+ Add CORS origin

Hosts that can connect to the project API.

ORIGIN	CREDENTIALS	CREATED	
http://localhost:3000	Allowed	18 hours	
http://localhost:3333	Allowed	18 hours	

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GROQ-powered webhooks

+ Create webhook

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

0 of 2 webhooks (2 included in plan)

Get more webhooks

Learn more about webhooks

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Tokens

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Tokens are used to authenticate apps and scripts to access project data.

NAME	PERMISSIONS	CREATED	
daythree	Developer	0 seconds	

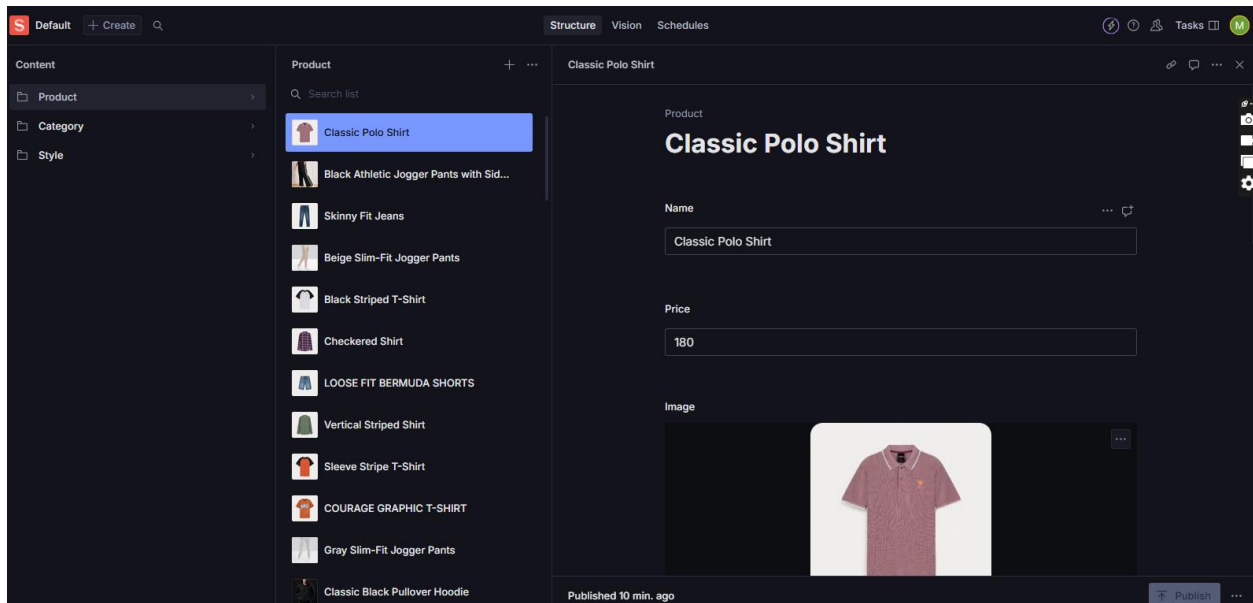
Copy the token below – this is your only chance to do so!

skIUIIYjpXyCjKAcKExAj1FRa7hv7K1R7Hzv8J1rvMhYubBK08nrNr5Qzd3G49r14afScv1U3WnfmicN4MY4gD9DhbmhntxsUYAiL99YwIvYyTgv06SChz7zKYCpCpV0J1GaZLOzk0r8f7Wawzt4r8FUBTIJLcd2Vp2uVpa1HdGs3irYnFy7

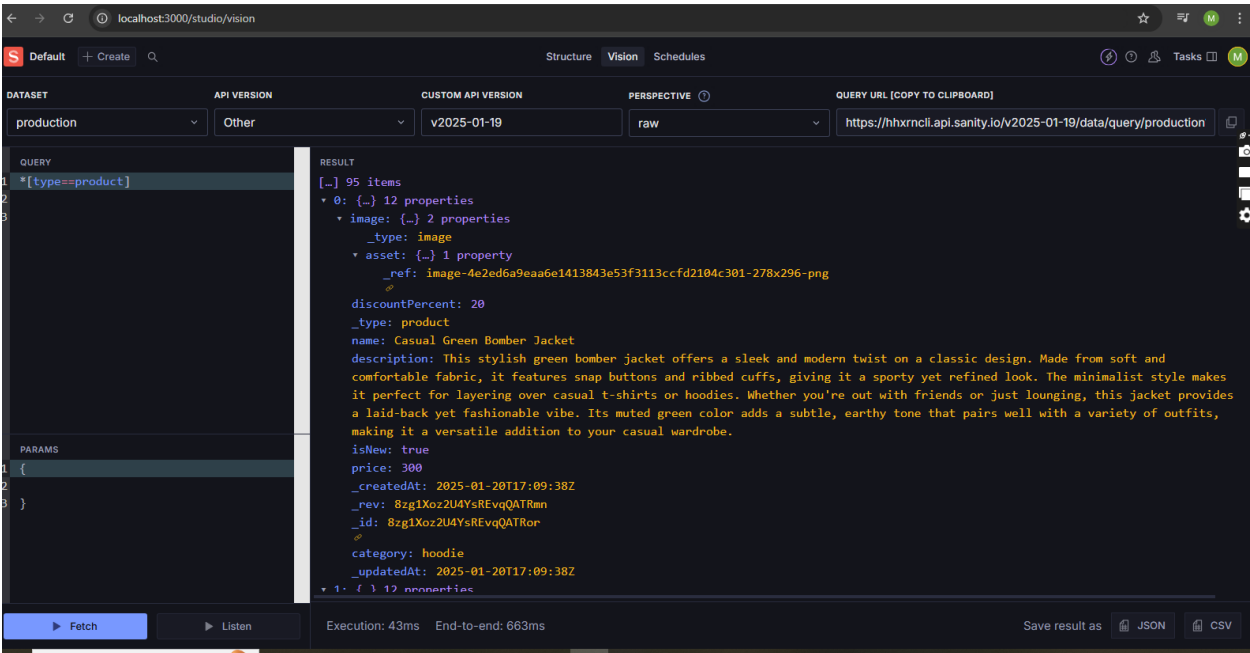
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```
_createdAt: '2025-01-25T09:22:08Z',
_id: '0zPjWAGkHgZUBjxT41EVq5',
_rev: '0zPjWAGkHgZUBjxT41EVl1',
_type: 'products',
_updatedAt: '2025-01-25T09:22:08Z',
category: 'tshirt',
colors: [ 'White', 'Black', 'Green', 'Yellow' ],
description: 'Classic Polo Shirt\n' +
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  '\n' +
  'Key features:\n' +
  '\n' +
  'Made with durable and lightweight material\n' +
  'Available in a variety of colors and sizes\n' +
  'Easy to pair with jeans, chinos, or shorts for a polished look\n' +
  'Ideal for work, casual outings, or weekend wear\n' +
  'Stay effortlessly stylish with this must-have polo shirt!',
discountPercent: 0,
image: {
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  asset: {
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  }
},
isNew: true,
name: 'Classic Polo Shirt ',
price: 180,
sizes: [ 'L', 'XXL', 'S', 'M' ]
}
```


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NEW ARRIVALS




COURAGE GRAPHIC T-SHIRT
★★★★★
145 ₪



Black Striped T-Shirt
★★★★★
120 ₪



Classic Polo Shirt
★★★★★
180 ₪



Sleeve Stripe T-Shirt
★★★★★
130 ₪

[View all](#)

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Home > Shop > Mens T-shirts >



COURAGE GRAPHIC T-SHIRT

Size: S
Color: White

\$145

— 1 +

THE END