

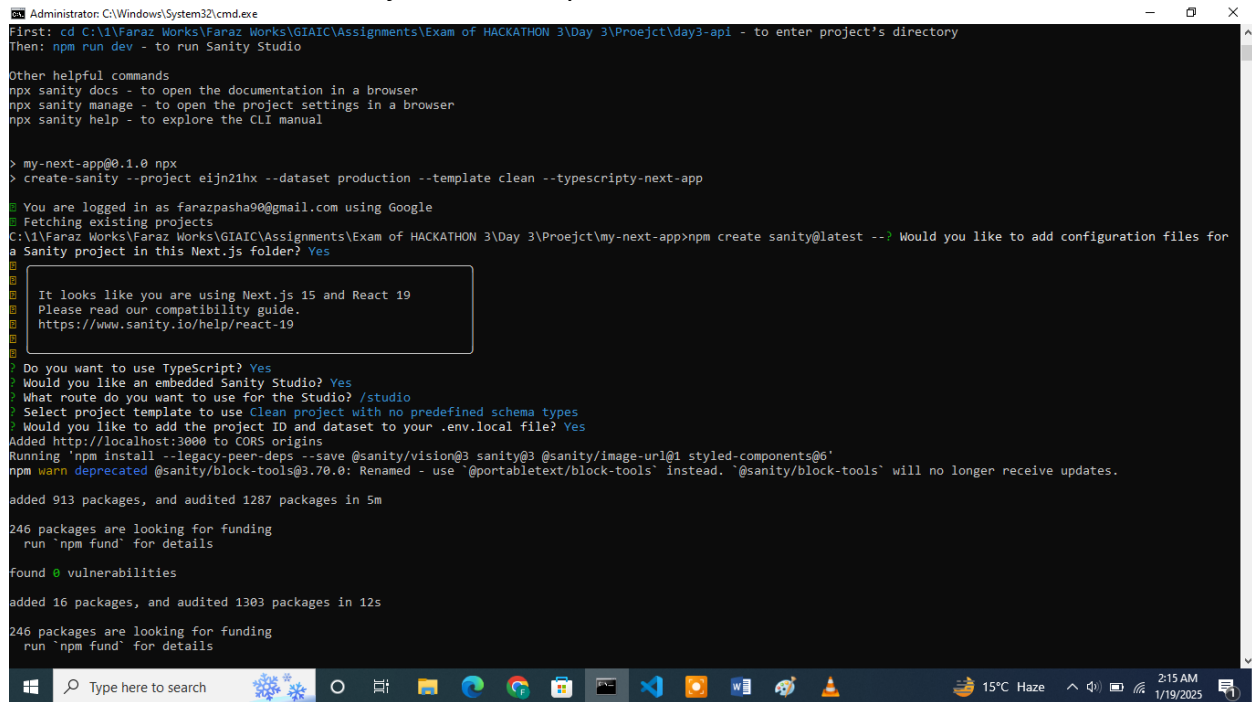
# HACKATHON 3

## "Day 3 - API Integration Report - [Faraz-Ecommerce]"

### 1. API Integration Process

#### 1.1. Setting Up the Project Environment

- Initialized a Next.js project with TypeScript and Tailwind CSS.
- Installed required dependencies:  
    @sanity/client for Sanity CMS integration.  
    next, for Next.js functionality.



```
Administrator: C:\Windows\System32\cmd.exe
First: cd C:\1\Faraz Works\Faraz Works\GIAIC\Assignments\Exam of HACKATHON 3\Day 3\Project\day3-api - to enter project's directory
Then: npm run dev - to run Sanity Studio

Other helpful commands
npx sanity docs - to open the documentation in a browser
npx sanity manage - to open the project settings in a browser
npx sanity help - to explore the CLI manual

> my-next-app@0.1.0 npx
> create-sanity --project ejn21hx --dataset production --template clean --typescript-next-app

You are logged in as farazpasha90@gmail.com using Google
Fetching existing projects
C:\1\Faraz Works\Faraz Works\GIAIC\Assignments\Exam of HACKATHON 3\Day 3\Project\my-next-app>npm create sanity@latest --? Would you like to add configuration files for
a Sanity project in this Next.js folder? Yes

It looks like you are using Next.js 15 and React 19
Please read our compatibility guide.
https://www.sanity.io/help/react-19

? Do you want to use TypeScript? Yes
? Would you like an embedded Sanity Studio? Yes
? What route do you want to use for the Studio? /studio
? Select project template to use Clean project with no predefined schema types
? Would you like to add the project ID and dataset to your .env.local file? Yes
Added http://localhost:3000 to CORS origins
Running 'npm install --legacy-peer-deps --save @sanity/vision@3 sanity@3 @sanity/image-url@1 styled-components@6'
npm warn deprecated @sanity/block-tools@3.70.0: Renamed - use '@portabletext/block-tools' instead. '@sanity/block-tools' will no longer receive updates.
added 913 packages, and audited 1287 packages in 5m

246 packages are looking for funding
  run 'npm fund' for details

found 0 vulnerabilities

added 16 packages, and audited 1303 packages in 12s

246 packages are looking for funding
  run 'npm fund' for details
```

#### 1.2. Configuring Sanity Client

- Created a sanity directory for configuration files.
- Configured the sanityfetch function to fetch data from Sanity:

# SANITY.IO

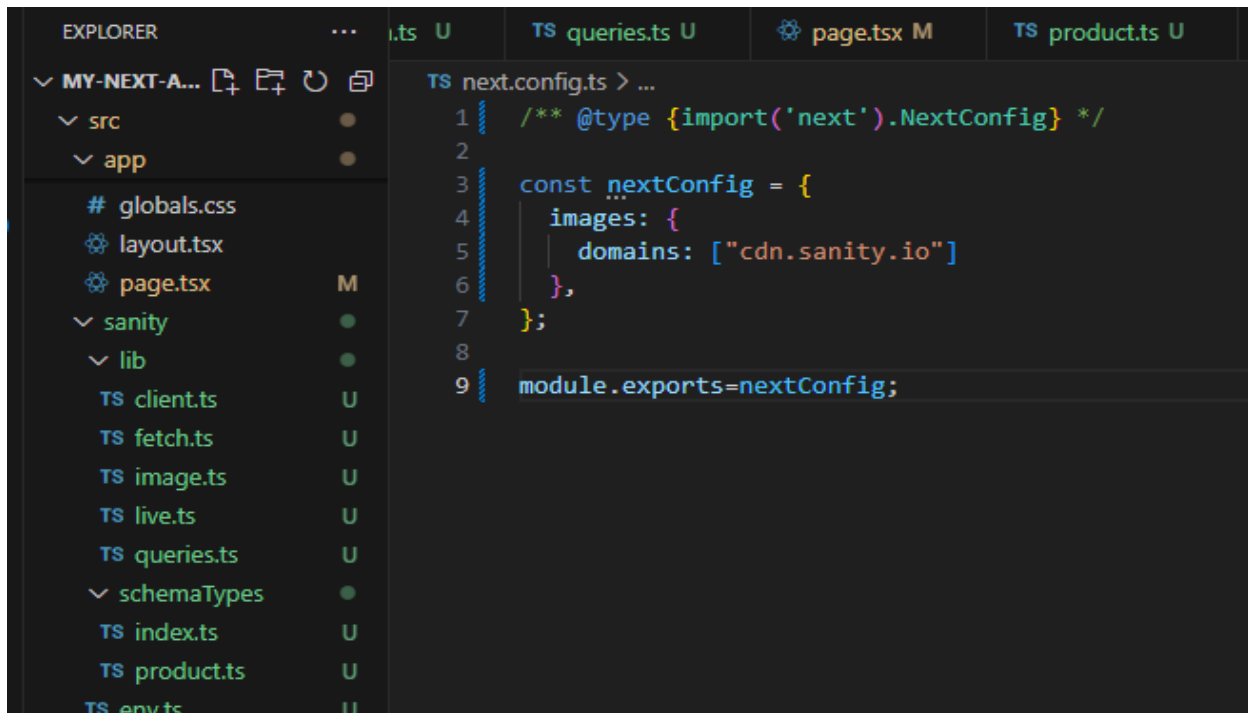
The screenshot shows the Sanity.io dashboard for a project named 'Day3-API'. The user 'Faraz Pasha' is logged in. The dashboard includes a sidebar with navigation links: Getting started, Overview, Members, Studios, Datasets, Access, Activity, Usage, Plan, API, and Settings. The main content area is titled 'GROQ-powered webhooks' and shows '0 of 2 webhooks (2 included in plan)'. A 'Create webhook' button is visible. Below the main content, there is a section for 'What's new' with the text 'Sanity Create Content Mapping, Visual Editing, and Content Releases'. The URL in the browser is 'sanity.io/manage/personal/project/eijn21hx/api?cors=add&origin=http%3A%2F%2Flocalhost%3A3001&credentials='.

## For schema changes

The screenshot shows a code editor with the following code in the 'product.ts' file:

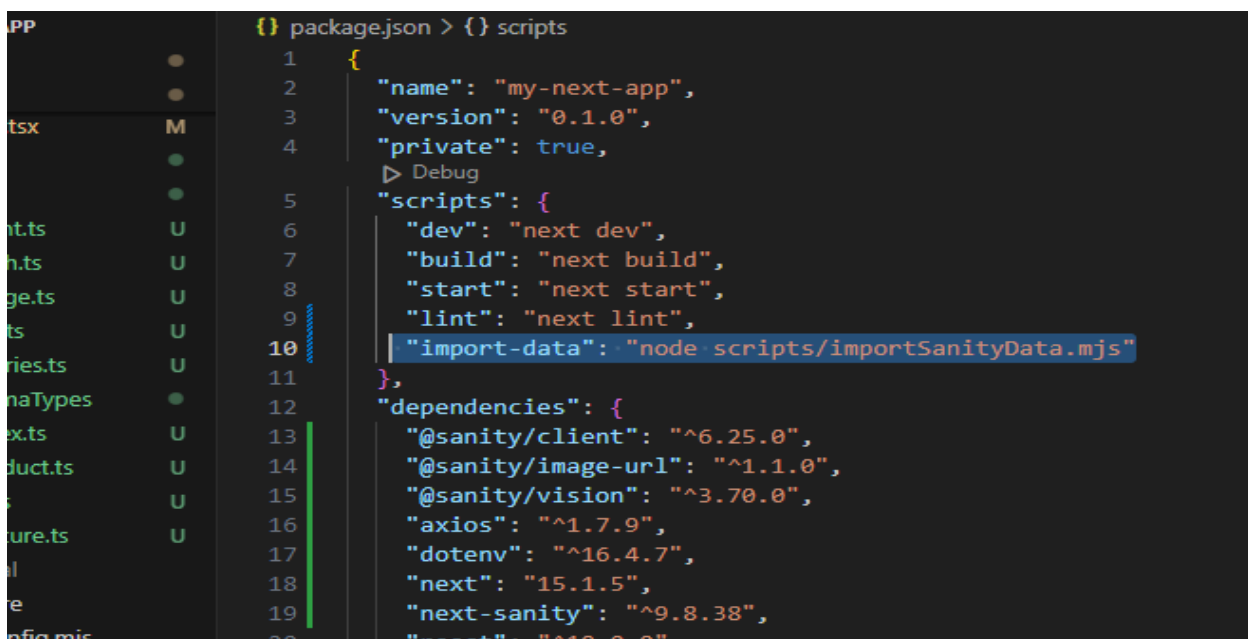
```
src > sanity > schemaTypes > TS product.ts > productSchema
1 export const productSchema = {
2   name: 'product',
3   title: 'Product',
4   type: 'document',
5   fields: [
6     {
7       name: 'productName',
8       title: 'Product Name',
9       type: 'string',
10    },
11    {
12      name: 'category',
13      title: 'Category',
14      type: 'string',
15    },
16    {
17      name: 'price',
18      title: 'Price',
19      type: 'number',
20    },
21    {
22      name: 'inventory',
23      title: 'Inventory',
24      type: 'number',
25    },
26    {
27      name: 'colors',
28      title: 'Colors',
29      type: 'array',
30      of: [{ type: 'string' }],
31    },
32  ],
33 }
```

## Next.config.ts changes for images



```
1  /** @type {import('next').NextConfig} */
2
3  const nextConfig = {
4    images: {
5      domains: ["cdn.sanity.io"]
6    },
7  };
8
9  module.exports=nextConfig;
```

## Package.json changes



```
1  {
2    "name": "my-next-app",
3    "version": "0.1.0",
4    "private": true,
5    "scripts": {
6      "dev": "next dev",
7      "build": "next build",
8      "start": "next start",
9      "lint": "next lint",
10     "import-data": "node scripts/importSanityData.mjs"
11   },
12   "dependencies": {
13     "@sanity/client": "^6.25.0",
14     "@sanity/image-url": "^1.1.0",
15     "@sanity/vision": "^3.70.0",
16     "axios": "^1.7.9",
17     "dotenv": "^16.4.7",
18     "next": "15.1.5",
19     "next-sanity": "^9.8.38",
20     "react": "19.0.0"
21   }
22 }
```

## 2- Submission Things

### API CALLS


```
1 {
2   "success": true,
3   "data": [
4     {
5       "productName": "Nike Air Force 1 Mid '07",
6       "category": "Men's Shoes",
7       "price": 10795,
8       "inventory": 20,
9       "colors": [
10        "White"
11      ],
12      "status": "Just In",
13      "image": "https://template-03-api.vercel.app/products/1.png",
14      "description": "The Nike Air Force 1 Mid '07 delivers timeless style with premium leather and mid-cut design. Perfect for everyday wear, it provides exceptional comfort and durability. The iconic Air-Sole cushioning adds responsive support for long-lasting performance."
15    },
16    {
17      "productName": "Nike Court Vision Low Next Nature",
18      "category": "Men's Shoes",
19      "price": 4995,
20      "inventory": 35,
21      "colors": [
22        "Black"
23      ],
24      "status": "Just In",
25      "image": "https://template-03-api.vercel.app/products/2.png",
26      "description": "The Nike Court Vision Low Next Nature combines retro basketball style with modern sustainability. Made with at least 20% recycled content, it features a sleek design, durable materials, and ultimate comfort for everyday wear."
27    },
28    {
29      "productName": "Nike Air Force 1 PLT.AF.ORM",
30      "category": "Women's Shoes",
31      "price": 8695,
32      "inventory": 18,
33      "colors": [
34        "White"
35      ],
36      "status": "Just In",
37      "image": "https://template-03-api.vercel.app/products/3.png",
38      "description": "The Nike Air Force 1 PLT.AF.ORM elevates the iconic AF1 silhouette with bold design updates. Featuring a platform sole and premium materials, this women's shoe redefines style and comfort in a fresh, modern way."
39    },
40    {
41      "productName": "Nike Air Force 1 React",
42      "category": "Men's Shoes",
43      "price": 13295,
44      "inventory": 12,
45      "colors": [
46        "White"
47      ],
48    }
49  ]
50 }
```

## Data on Frontend


Products

Data Fetch From API TO SANITY & THEN DISPLAY


HACKATHON 3 - DAY 3



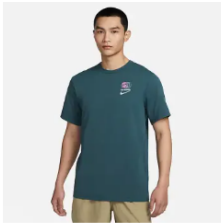
**Nike Air Force 1 Mid '07**  
Category : Men's Shoes  
Price : 10795  
Stock Level : 20  
Colors : White  
Status : Just In  
**Details :** The Nike Air Force 1 Mid '07 delivers timeless style with premium leather and mid-cut design. Perfect for everyday wear, it provides exceptional comfort and durability. The iconic Air-



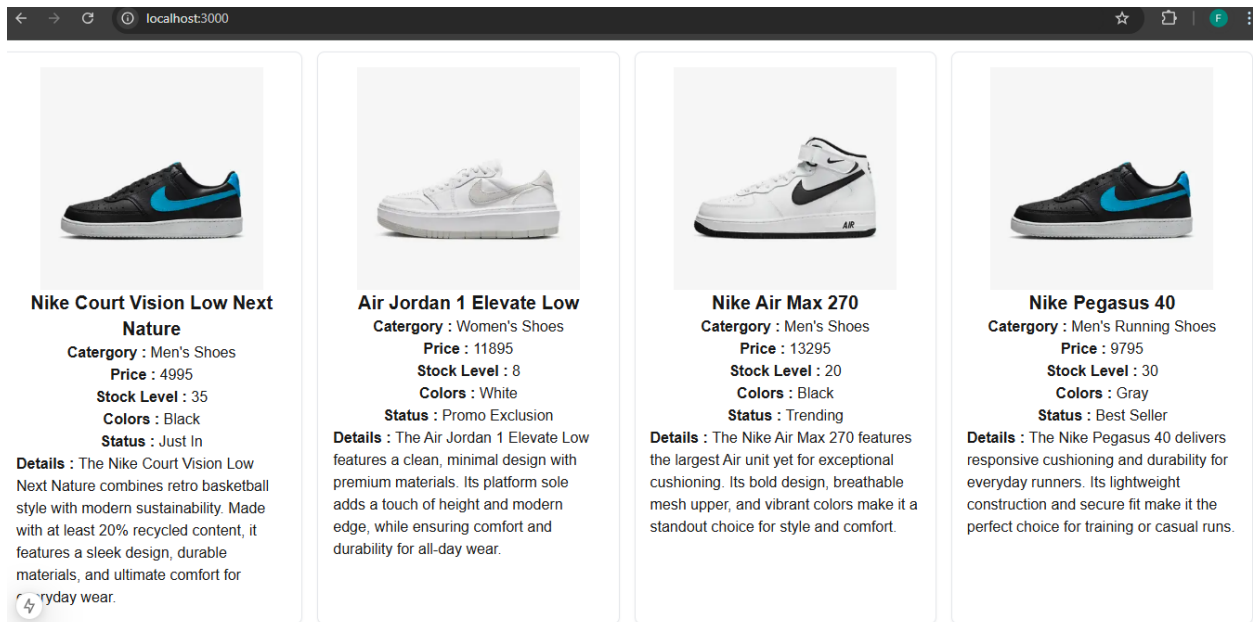
**Nike Air Force 1 React**  
Category : Men's Shoes  
Price : 13295  
Stock Level : 12  
Colors : White  
Status : Just In  
**Details :** The Nike Air Force 1 React takes the classic AF1 to the next level with React technology. Experience unparalleled cushioning and modern design details for all-day comfort and a



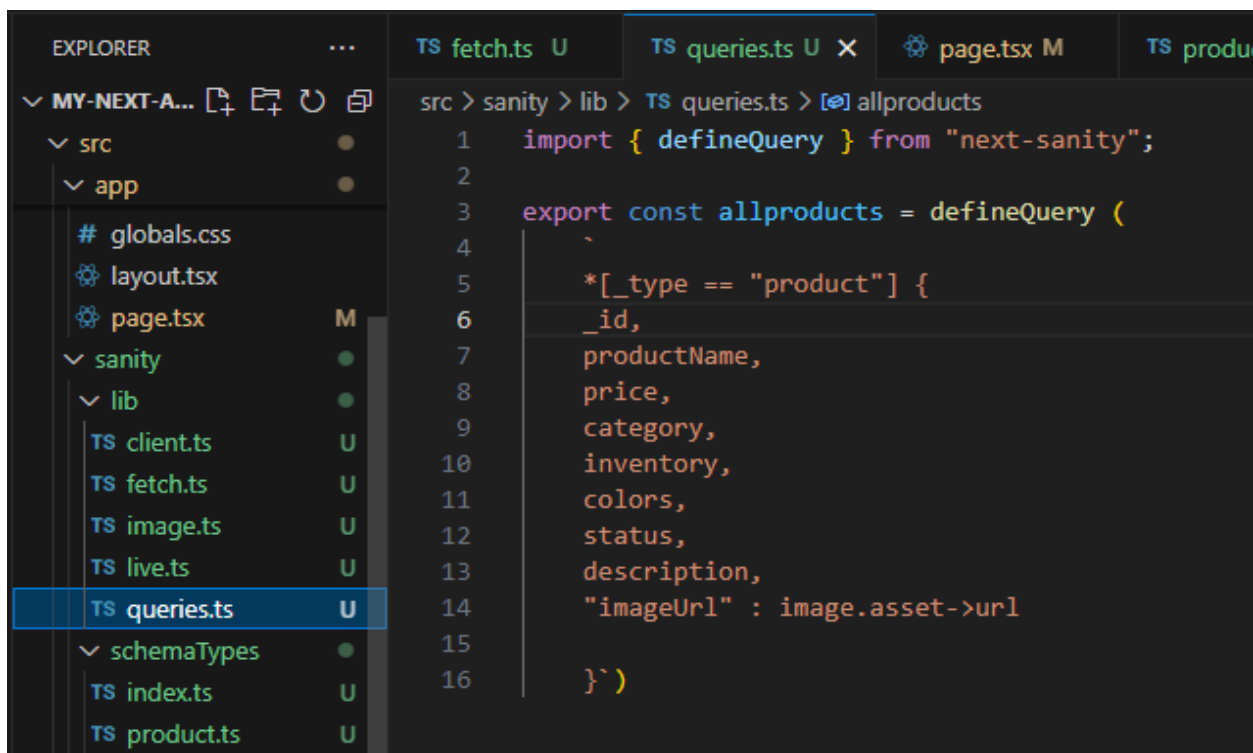
**Nike Standard Issue Basketball Jersey**  
Category : Women's Basketball Jersey  
Price : 2895  
Stock Level : 40  
Colors : White  
Status : Just In  
**Details :** The Nike Standard Issue Basketball Jersey delivers a lightweight, breathable fit for top performance. Designed for athletes, it combines style

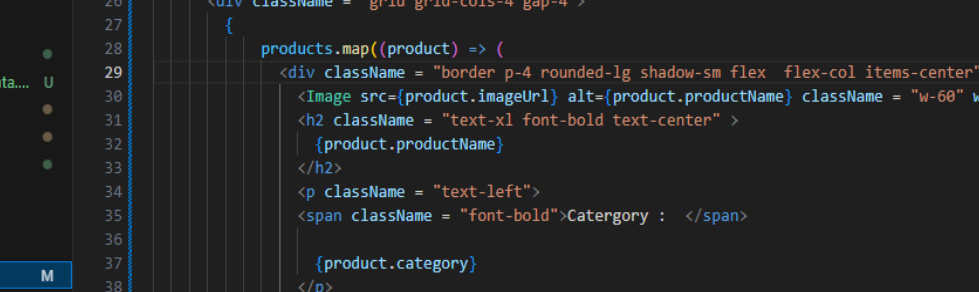


**Nike Dri-FIT UV Hyverse**  
Category : Men's Short-Sleeve Graphic Fitness Top  
Price : 2495  
Stock Level : 50  
Colors : Teal  
Status : Sustainable Materials  
**Details :** The Nike Dri-FIT UV Hyverse graphic top offers comfort and UV protection in style. Made from soft, breathable fabric, this fitness top keeps



## Populate Sanity CMS Fields





MY-NEXT-A... src > app > page.tsx > Home > products.map() callback

18 export default async function Home () {

26 <div className = "grid grid-cols-4 gap-4">

27 {

28 products.map((product) => (

29 <div className = "border p-4 rounded-lg shadow-sm flex flex-col items-center" key = {product

30 <Image src={product.imageUrl} alt={product.productName} className = "w-60" width = {300} he

31 <h2 className = "text-xl font-bold text-center">

32 {product.productName}

33 </h2>

34 <p className = "text-left">

35 <span className = "font-bold">Category : </span>

36 {product.category}

37 </p>

38 <p className = "text-left">

39 <span className = "font-bold">Price : </span>

40 {product.price}

41 </p>

42 <p className = "text-left">

43 <span className = "font-bold text-left">Stock Level : </span>

44 {product.inventory}

45 </p>

46 <p className = "text-left">

47 <span className = "font-bold">Colors : </span>

48 {product.colors}

49 </p>

50 <p className = "text-left">

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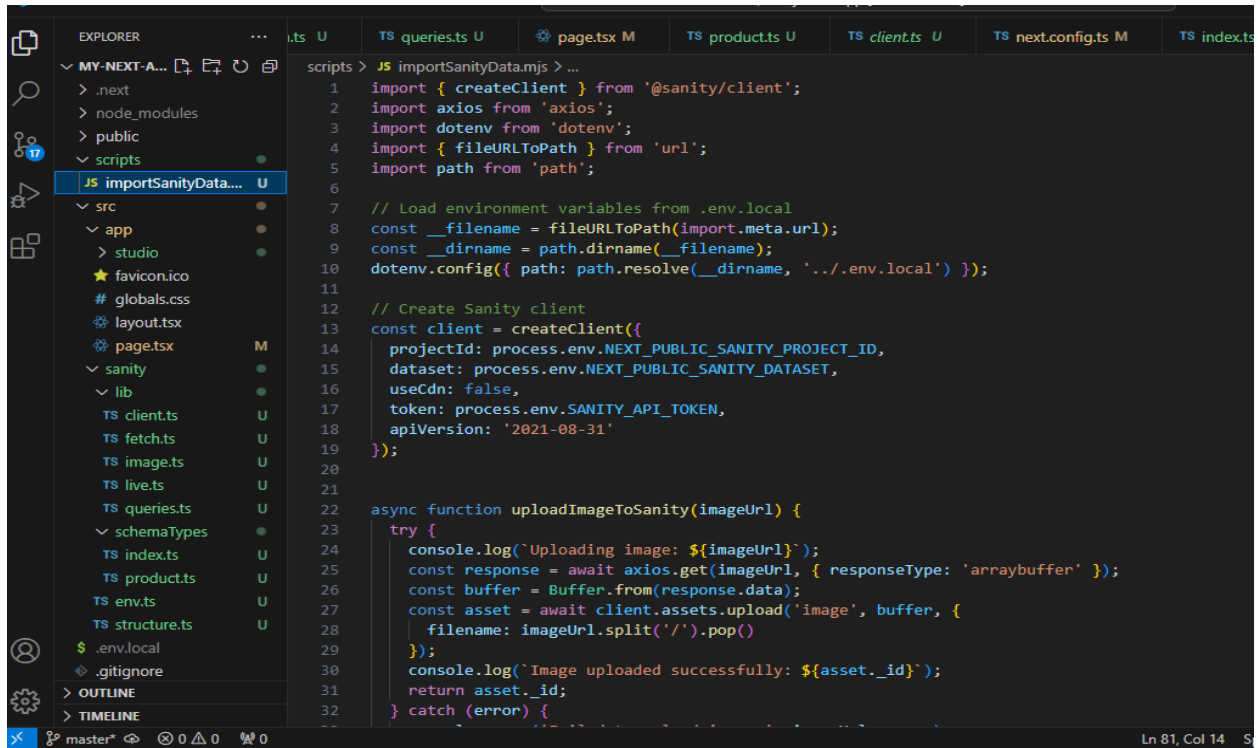
299 </div>

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# Migration Scripts



The screenshot shows a VS Code editor with a project named 'MY-NEXT-A...' open. The Explorer sidebar on the left shows the file structure, including folders like '.next', 'node\_modules', 'public', and 'scripts'. The 'scripts' folder is expanded, showing a file named 'JS importSanityData.mjs' which is selected. The main editor area displays the content of this file, a TypeScript script for migrating data to Sanity.io. The script imports necessary modules, loads environment variables, creates a Sanity client, and defines an asynchronous function to upload images.

```
1 import { createClient } from '@sanity/client';
2 import axios from 'axios';
3 import dotenv from 'dotenv';
4 import { fileURLToPath } from 'url';
5 import path from 'path';
6
7 // Load environment variables from .env.local
8 const __filename = fileURLToPath(import.meta.url);
9 const __dirname = path.dirname(__filename);
10 dotenv.config({ path: path.resolve(__dirname, '../.env.local') });
11
12 // Create Sanity client
13 const client = createClient({
14   projectId: process.env.NEXT_PUBLIC_SANITY_PROJECT_ID,
15   dataset: process.env.NEXT_PUBLIC_SANITY_DATASET,
16   useCdn: false,
17   token: process.env.SANITY_API_TOKEN,
18   apiVersion: '2021-08-31'
19 });
20
21
22 async function uploadImageToSanity(imageUrl) {
23   try {
24     console.log(`Uploading image: ${imageUrl}`);
25     const response = await axios.get(imageUrl, { responseType: 'arraybuffer' });
26     const buffer = Buffer.from(response.data);
27     const asset = await client.assets.upload('image', buffer, {
28       filename: imageUrl.split('/').pop()
29     });
30     console.log(`Image uploaded successfully: ${asset._id}`);
31     return asset._id;
32   } catch (error) {
33     // ...
34   }
35 }
```

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