

"Day 3 - API Integration Report - [E commerce]" A Report Document ;

- *Api integration Process.*
- *Adujustment made to schemas.*
- *Migration step and tools used.*

Screenshots of:

- *Api calls.*
- *Data successfully import*
- *Populated sanity CMS fields.*
- *Code screenshot for API integration and - migration scripts .*
- *Data successfully displayed in the frontend.*

sanity install my_project

```

Microsoft Windows [Version 10.0.22621.4317]
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C:\Users\azhar\Desktop\web-4>code .

C:\Users\azhar\Desktop\web-4>npm create sanity@latest
Need to install the following packages:
  create-sanity@3.70.0
Ok to proceed? (y) Y
✓ You are logged in as abdulmateen5251@gmail.com using GitHub
✓ Fetching existing projects

? Create a new project or select an existing one Create new project
? Your project name: day3api
Your content will be stored in a dataset that can be public or private, depending on
whether you want to query your content with or without authentication.
The default dataset configuration has a public dataset named "production".
? Use the default dataset configuration? Yes
✓ Creating dataset
? 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

```

```

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

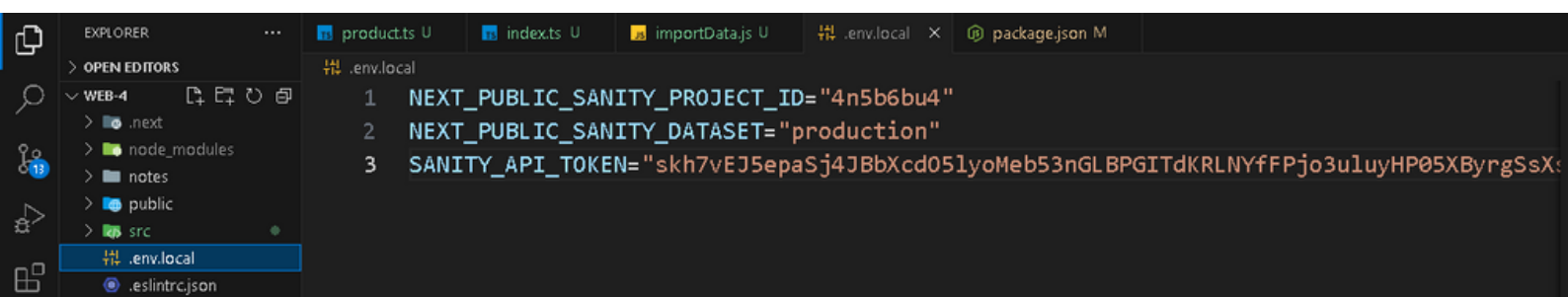
found 0 vulnerabilities

Success! Your Sanity configuration files has been added to this project

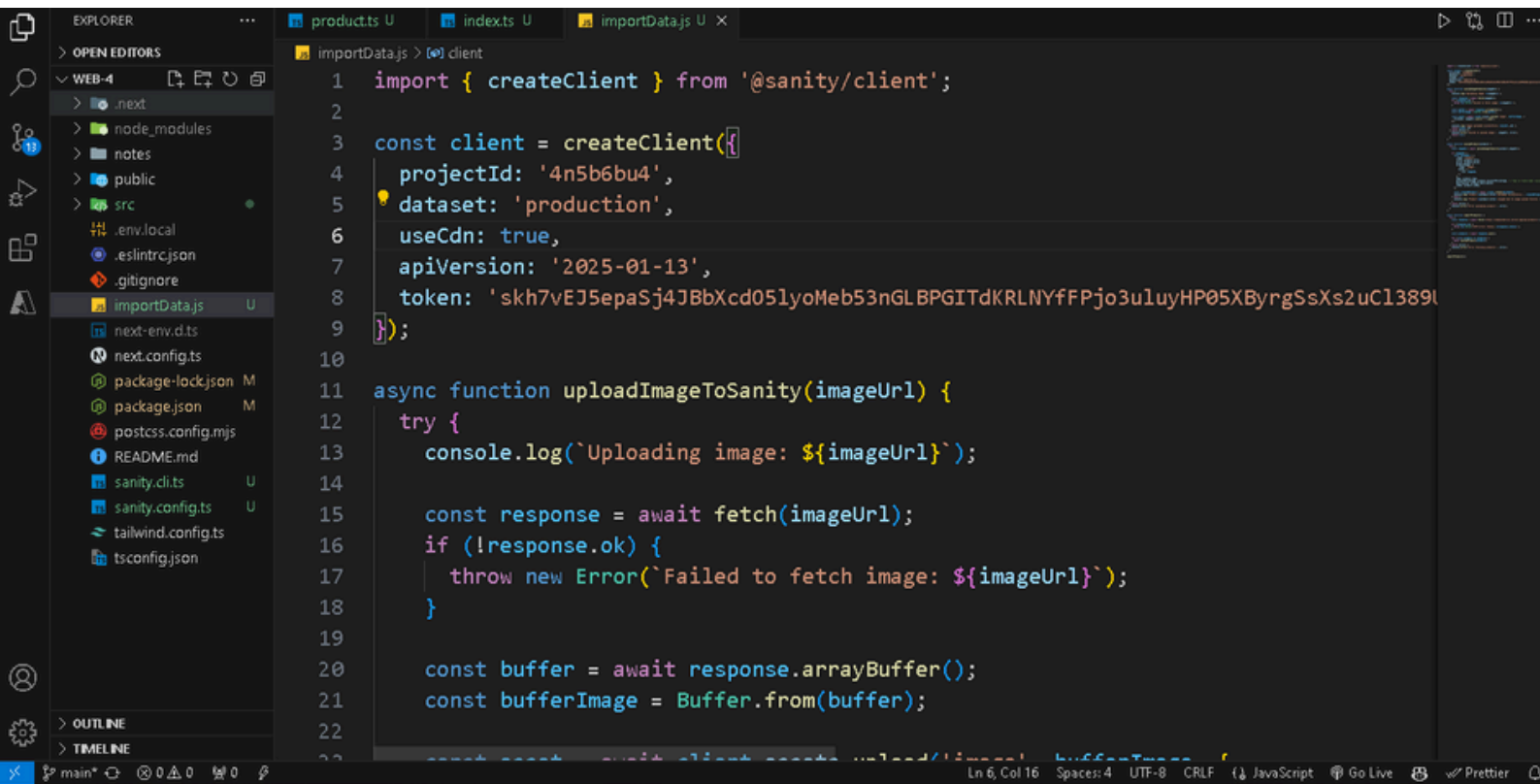
C:\Users\azhar\Desktop\web-4>

```

set up .env.local

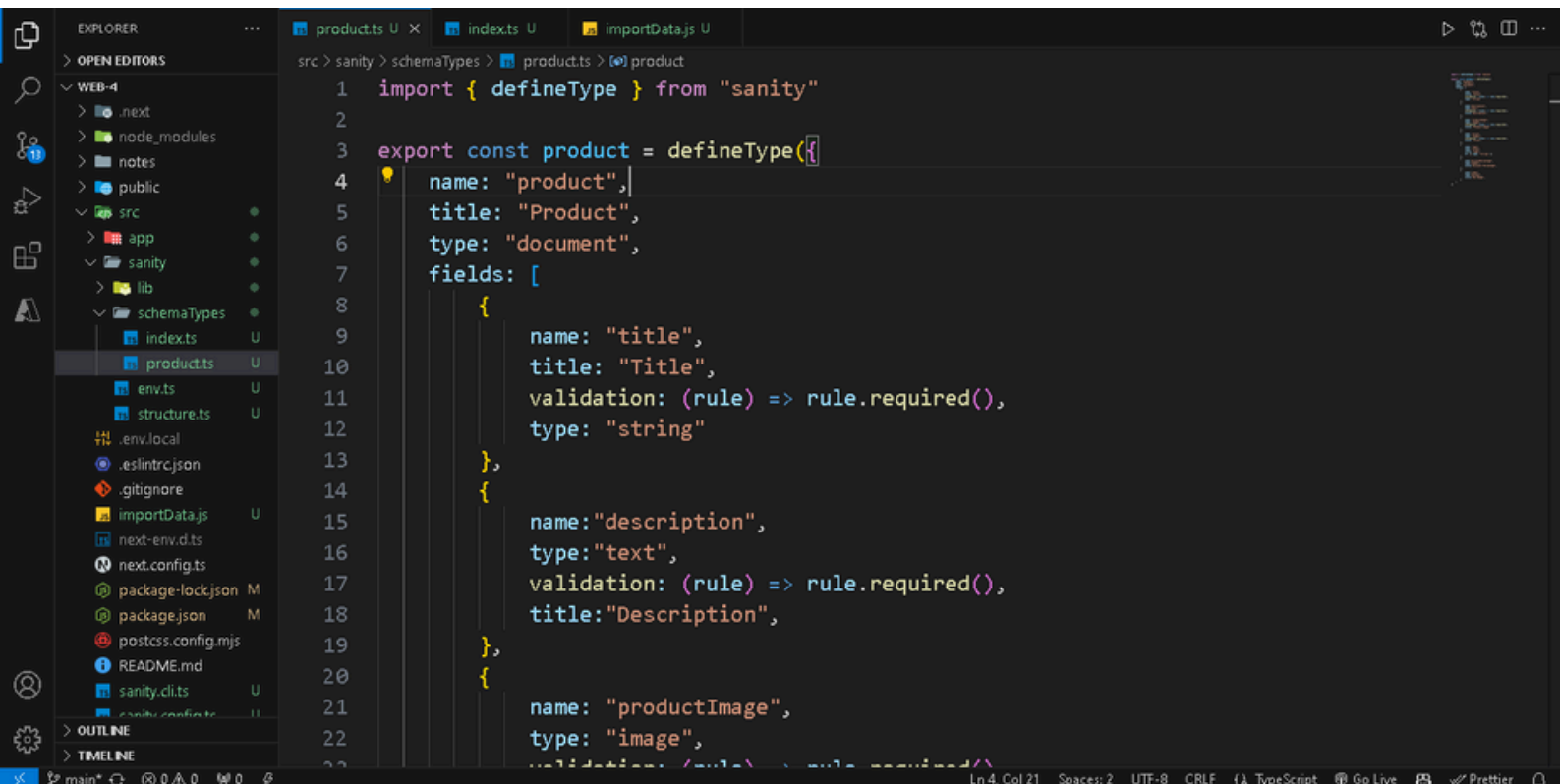


set up migration file (impory data.js)



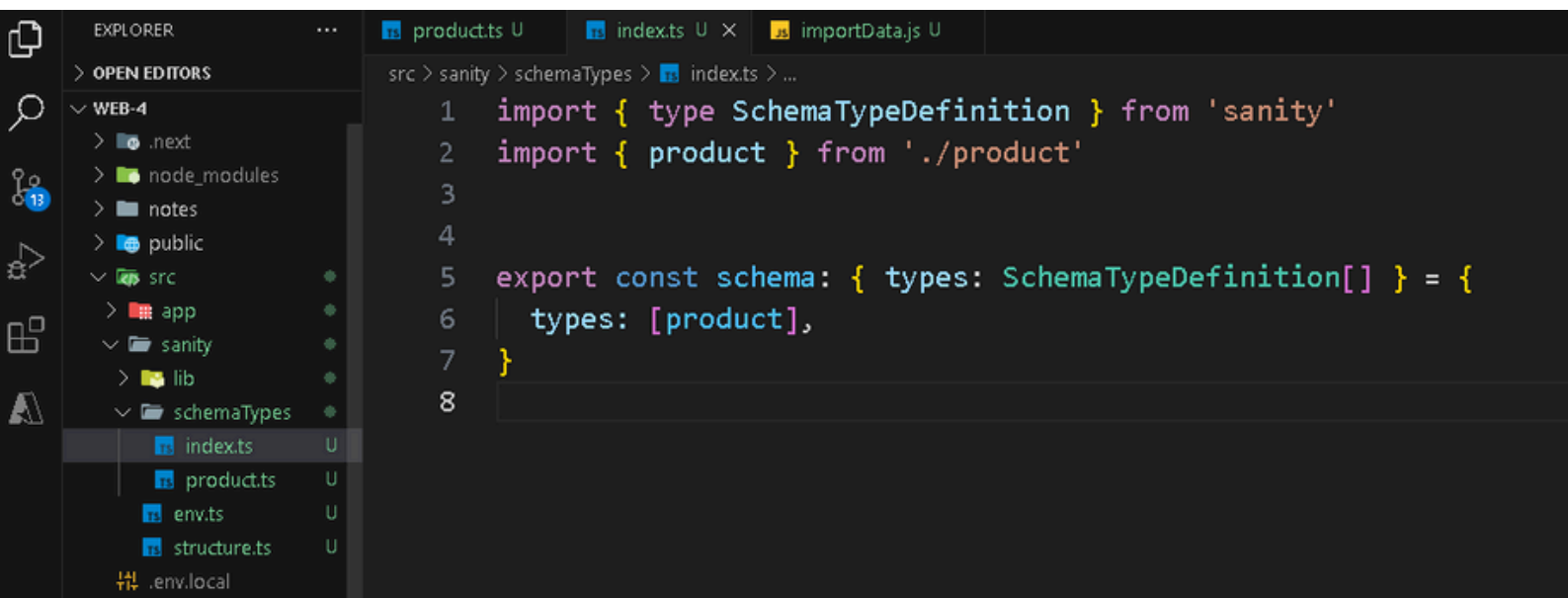
```
1 import { createClient } from '@sanity/client';
2
3 const client = createClient({
4   projectId: '4n5b6bu4',
5   dataset: 'production',
6   useCdn: true,
7   apiVersion: '2025-01-13',
8   token: 'skh7vEJ5epaSj4JBbXcd051yoMeb53nGLBPGITdKRLNYfFPjo3uIuyHP05XByrgSsXs2uCl389L';
9 });
10
11 async function 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,
25       contentType: response.headers.get('content-type')
26     });
27     return asset.url;
28   } catch (error) {
29     console.error('Error uploading image:', error);
30   }
31 }
```

set up schemas (product.ts)



```
1 import { defineType } from "sanity"
2
3 export const product = defineType({
4   name: "product",
5   title: "Product",
6   type: "document",
7   fields: [
8     {
9       name: "title",
10      title: "Title",
11      validation: (rule) => rule.required(),
12      type: "string"
13    },
14    {
15      name: "description",
16      type: "text",
17      validation: (rule) => rule.required(),
18      title: "Description",
19    },
20    {
21      name: "productImage",
22      type: "image",
23      validation: (rule) => rule.required()
24    }
25  ]
26 })
```

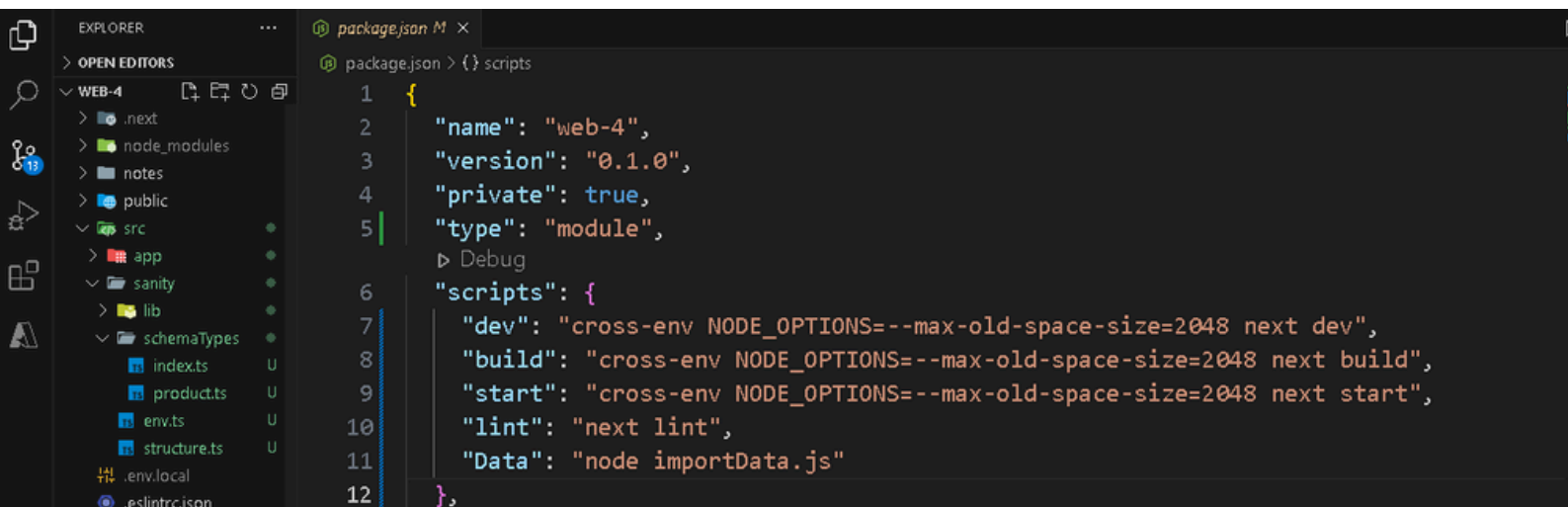
import products for (index.ts) in sanity



The screenshot shows the VS Code interface. On the left, the Explorer sidebar displays a project structure for 'WEB-4' with folders like .next, node_modules, notes, public, src, app, sanity, lib, and schemaTypes. The schemaTypes folder is expanded, showing files index.ts, product.ts, env.ts, and structure.ts. The main editor area shows the content of index.ts, which imports SchemaTypeDefinition from 'sanity' and product from './product'. It then exports a constant schema object with a types array containing product.

```
1 import { type SchemaTypeDefinition } from 'sanity'
2 import { product } from './product'
3
4
5 export const schema: { types: SchemaTypeDefinition[] } = {
6   types: [product],
7 }
8
```

set up (package.json)



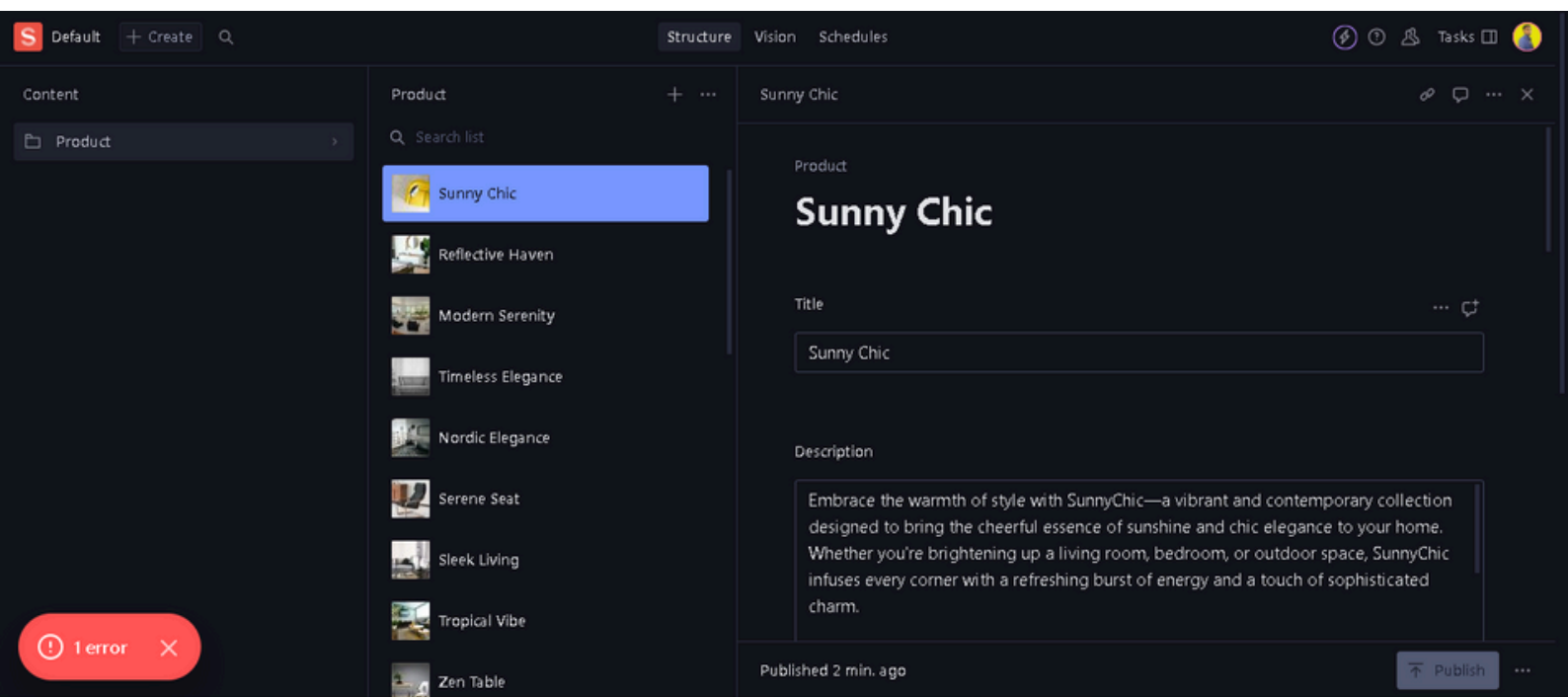
The screenshot shows the VS Code interface with the package.json file open in the editor. The file contains metadata for the project, including name, version, private status, type, and a scripts section with commands for dev, build, start, lint, and Data.

```
1 {
2   "name": "web-4",
3   "version": "0.1.0",
4   "private": true,
5   "type": "module",
6   "scripts": {
7     "dev": "cross-env NODE_OPTIONS=--max-old-space-size=2048 next dev",
8     "build": "cross-env NODE_OPTIONS=--max-old-space-size=2048 next build",
9     "start": "cross-env NODE_OPTIONS=--max-old-space-size=2048 next start",
10    "lint": "next lint",
11    "Data": "node importData.js"
12  },
13}
```

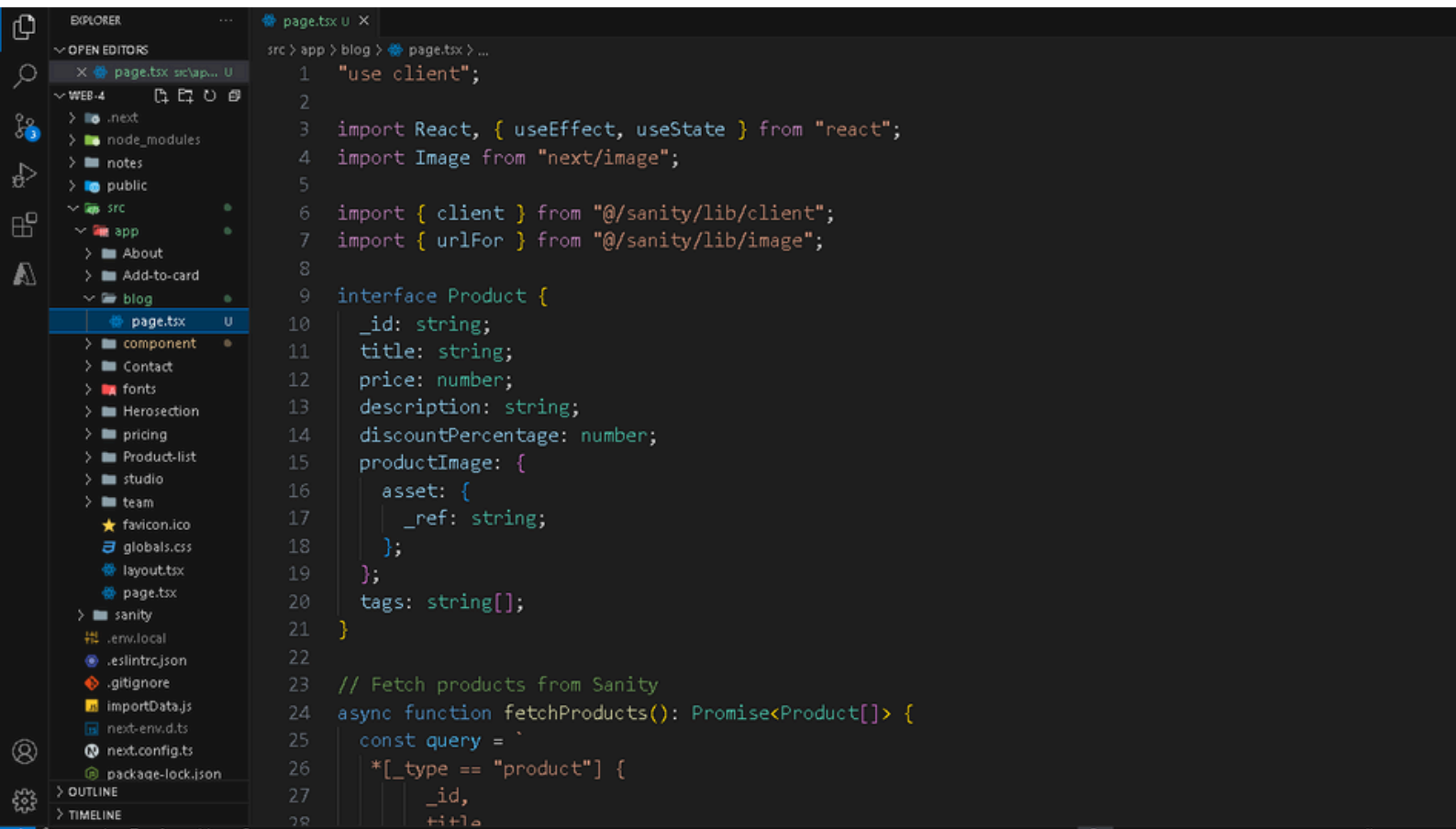
- success full migrate

```
'\n' +
  'Crafted from high-quality materials, SunnyChic is designed for those who appreciate a modern and cheerful aesthetic without sacrificing comfort. The collection offers a perfect balance of casual elegance and bright appeal, making it an ideal choice for those who love to incorporate light, airy tones and a touch of playfulness into their decor.\n'
+
  '\n' +
  'Key Features:\n' +
  '\n' +
  'Bright, bold colors and breezy designs inspired by sunny, coastal living\n' +
  'High-quality materials that are both durable and comfortable\n' +
  'A versatile collection perfect for living rooms, bedrooms, or outdoor spaces\n' +
  'Combines chic style with a relaxed, welcoming atmosphere\n' +
  'Ideal for those looking to add a refreshing, cheerful touch to their home\n' +
  'Fill your home with the light and energy of SunnyChic—where sunshine meets style for a lively and sophisticated living experience. Make every day feel like a sunlit escape.',
  discountPercentage: 50,
  isNew: false,
  price: 400,
  productImage: {
    _type: 'image',
    asset: {
      _ref: 'image-ed5874fb4498ee4ff897075bad504056cb87388c-4000x3907-jpg'
    }
  },
  tags: [ 'sunny ', 'chic ', 'modern ', 'elegant ', 'furniture' ],
  title: 'Sunny Chic'
}
```

fetch all products in my [sanity studio](#)

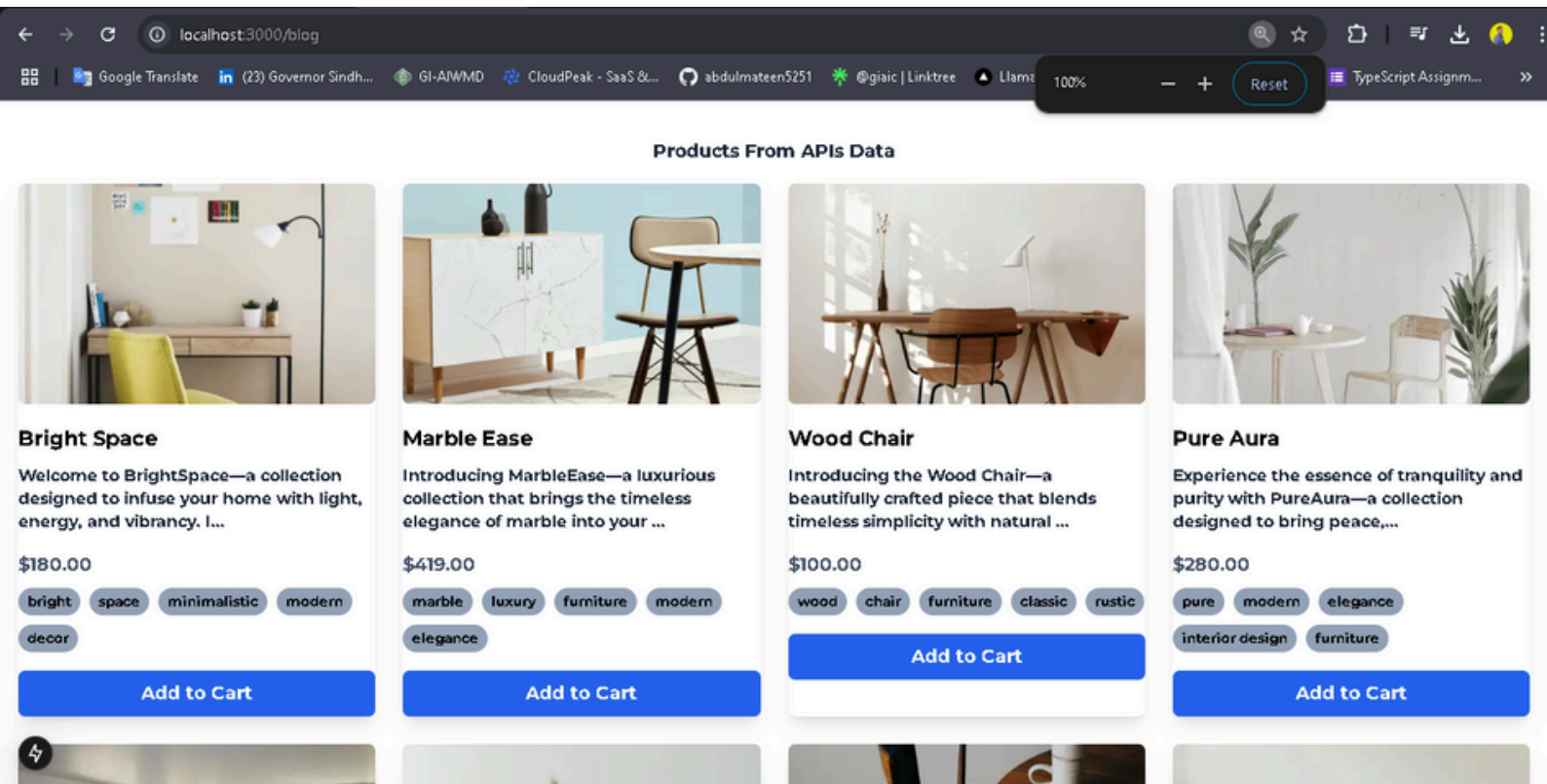


display code



```
1 "use client";
2
3 import React, { useEffect, useState } from "react";
4 import Image from "next/image";
5
6 import { client } from "@sanity/lib/client";
7 import { urlFor } from "@sanity/lib/image";
8
9 interface Product {
10   _id: string;
11   title: string;
12   price: number;
13   description: string;
14   discountPercentage: number;
15   productImage: {
16     asset: {
17       _ref: string;
18     };
19   };
20   tags: string[];
21 }
22
23 // Fetch products from Sanity
24 async function fetchProducts(): Promise<Product[]> {
25   const query = `
26     *[_type == "product"] {
27       _id,
28       title,
29       price,
30       description,
31       discountPercentage,
32       productImage {
33         asset {
34           _ref
35         }
36       }
37     }
38   `;
39   const products = await client.fetch(query);
40   return products;
41 }
```

Data successfully *displayed* in the frontend.



Add to cart function add

