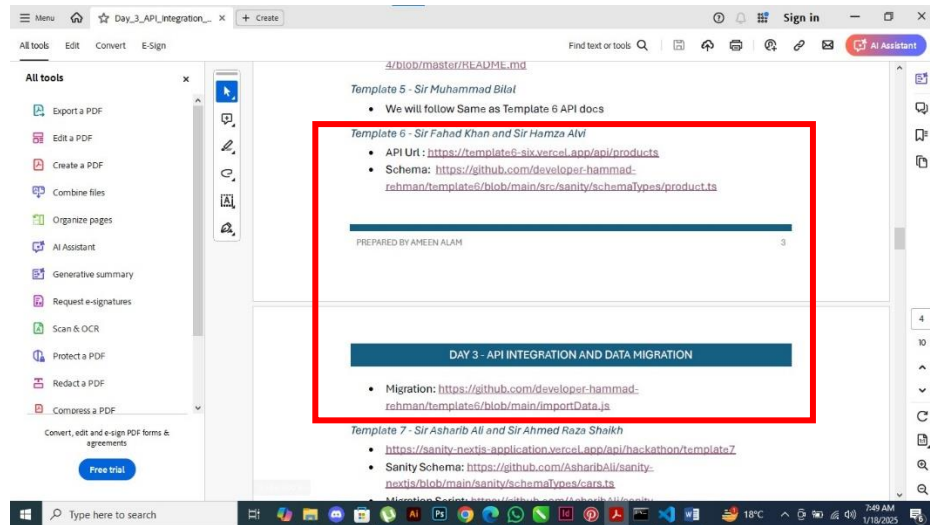


Day_3_API_Integration_and_Data_Migration.

- According to my roll no. 00113636 I was assigned for template-6.
- Since that was a figma based Ui/Ux design now it's time to add some back-end data. So the current assignment is highlighted below:

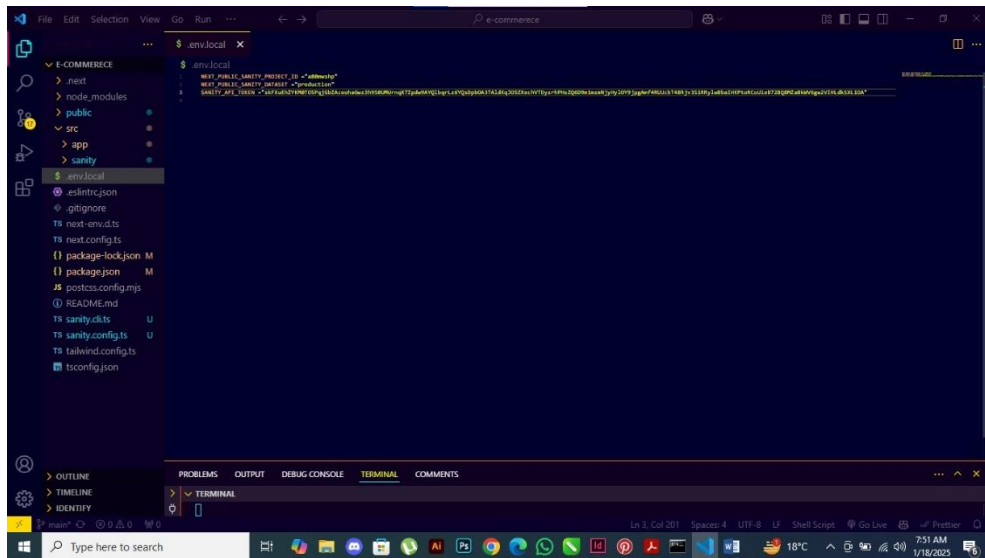


- Since front-end was already set-up with next.js and tailwind-css it as necessary to install sanity as I preferred sanity as headless-cms. So I run opened my project and run command.
- **npm create sanity@latest**

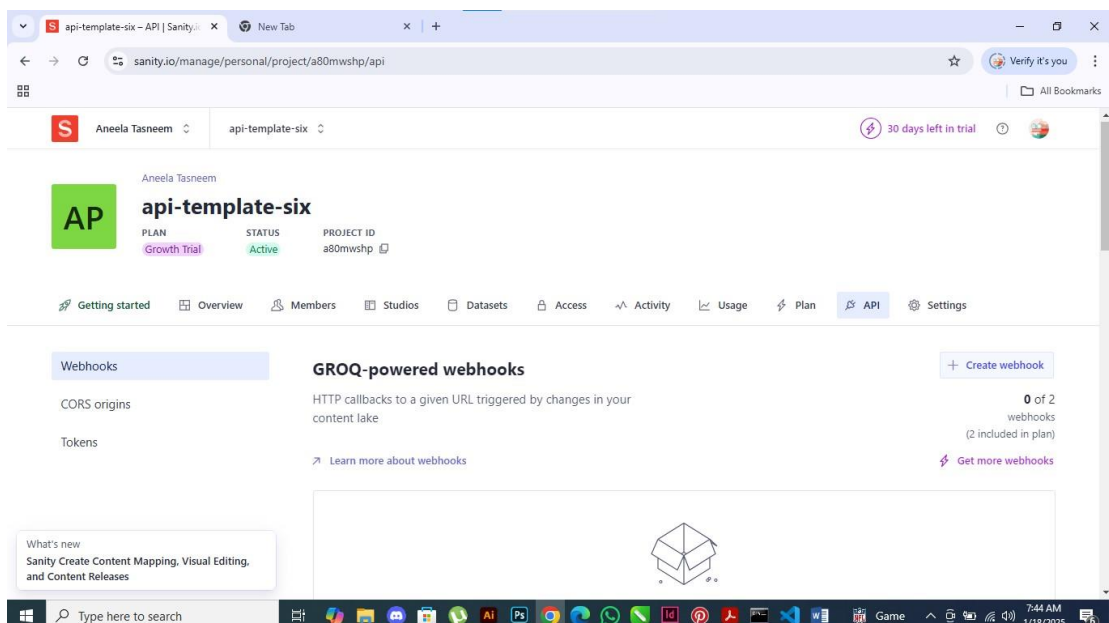
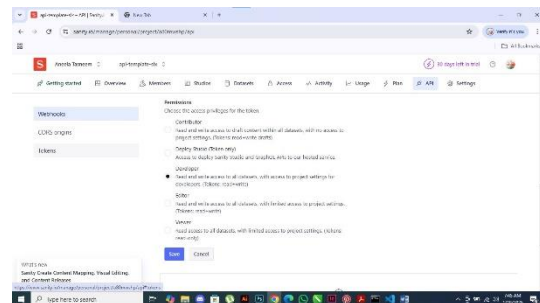
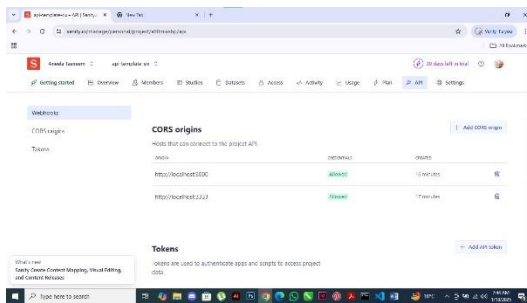
```
Select C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.3247]
(c) Microsoft Corporation. All rights reserved.

D:\Quarter 2\practice-commerce>code .
D:\Quarter 2\practice-commerce>npm create sanity@latest
e-commerce@1.0 npx
create-sanity
You are logged in as aneelatasneem@gmail.com using Google
Fetching existing projects
Create a new project or select an existing one Create new project
Your project name: api-template-six
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@0'
npm warn deprecated @sanity/block-tools@3.70.0: Renamed - use @portabletext/block-tools' instead. '@sanity/block-tools' will no longer receive updates.
added 914 packages, changed 2 packages, and audited 1288 packages in 5m
243 packages are looking for funding
run 'npm fund' for details
1 moderate severity vulnerability
To address all issues, run:
npm audit fix --force
Run 'npm audit' for details.
added 16 packages, and audited 1304 packages in 10s
243 packages are looking for funding
run 'npm fund' for details
1 moderate severity vulnerability
To address all issues, run:
npm audit fix --force
Run 'npm audit' for details.
Success! Your Sanity configuration files has been added to this project
D:\Quarter 2\practice-commerce>
```

- .env.local file



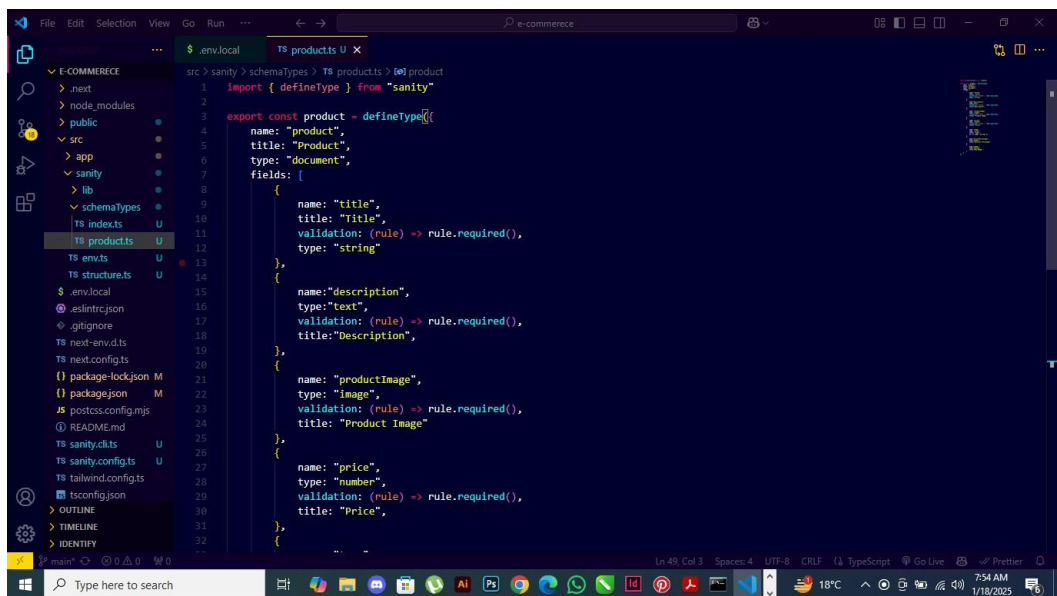
.Sanity



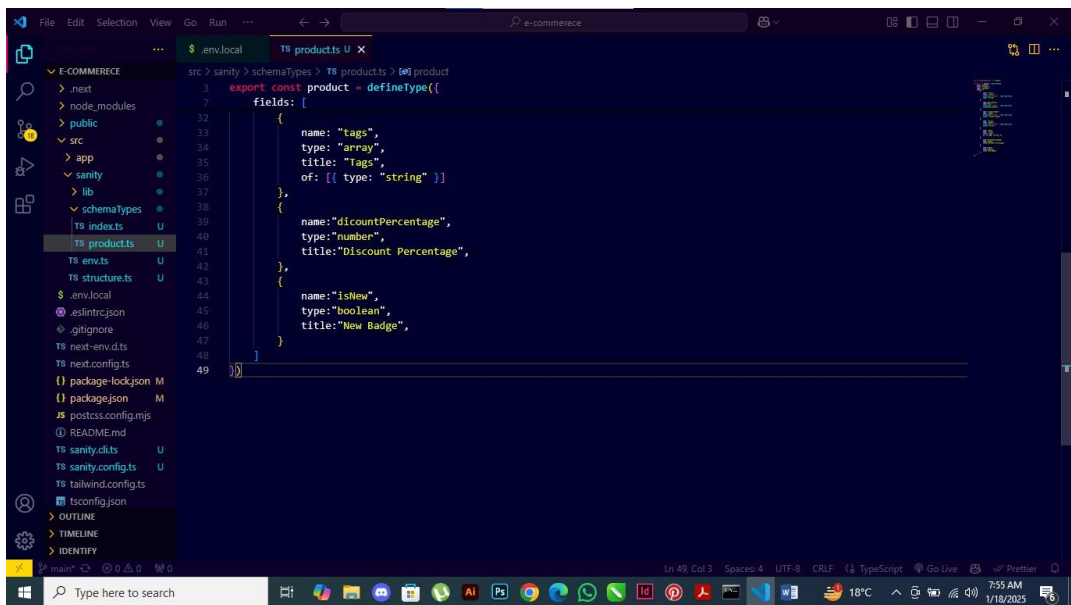
- **Create : Src-schema-types-index.ts**

```
import { defineType } from "sanity"

export const product = defineType({
  name: "product",
  title: "Product",
  type: "document",
  fields: [
    {
      name: "title",
      title: "Title",
      validation: (rule) => rule.required(),
      type: "string"
    },
    {
      name: "description",
      type: "text",
      validation: (rule) => rule.required(),
      title: "Description",
    },
    {
      name: "productImage",
      type: "image",
      validation: (rule) => rule.required(),
      title: "Product Image"
    },
    {
      name: "price",
      type: "number",
      validation: (rule) => rule.required(),
      title: "Price",
    },
    {
      name: "tags",
      type: "array",
      title: "Tags",
      of: [{ type: "string" }]
    },
    {
      name: "discountPercentage",
      type: "number",
      title: "Discount Percentage",
    },
    {
      name: "isNew",
      type: "boolean",
      title: "New Badge",
    }
  ]
})
```

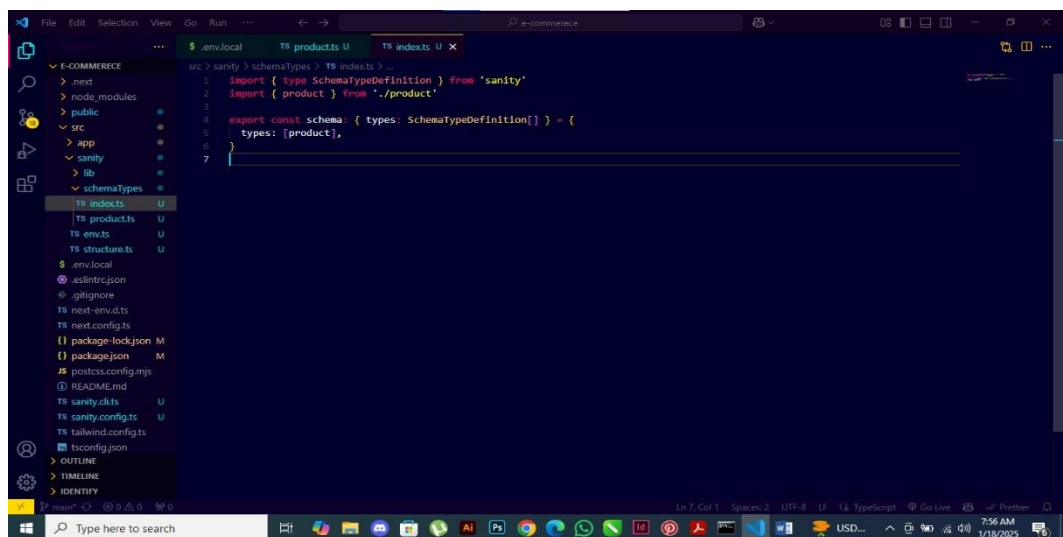


```
src > sanity > schemaTypes > TS products > TS product
1  import { defineType } from "sanity"
2
3
4  export const product = defineType({
5    name: "product",
6    title: "Product",
7    type: "document",
8    fields: [
9      {
10       name: "title",
11       title: "Title",
12       validation: (rule) => rule.required(),
13       type: "string"
14     },
15     {
16       name: "description",
17       type: "text",
18       validation: (rule) => rule.required(),
19       title: "Description",
20     },
21     {
22       name: "productImage",
23       type: "image",
24       validation: (rule) => rule.required(),
25       title: "Product Image"
26     },
27     {
28       name: "price",
29       type: "number",
30       validation: (rule) => rule.required(),
31       title: "Price",
32     },
33   ],
34 })
```



```
src > sanity > schemaTypes > TS products > TS product
3  export const product = defineType({
4    fields: [
5      {
6       name: "tags",
7       type: "array",
8       title: "Tags",
9       of: [{ type: "string" }]
10     },
11     {
12       name: "discountPercentage",
13       type: "number",
14       title: "Discount Percentage",
15     },
16     {
17       name: "isNew",
18       type: "boolean",
19       title: "New Badge",
20     },
21   ],
22 })
```

- index.ts



```
src > sanity > schemaTypes > TS index > TS index
1  import { type SchemaTypeDefinition } from "sanity"
2  import { product } from "../product"
3
4  export const schema: { types: SchemaTypeDefinition[] } = {
5    types: [product],
6  }
7
```

- **Create : project directory folder scripts- importData.js(given in repo)**

```
import { createClient } from '@sanity/client';
```

```
const client = createClient({  
  projectId: 'your-project-id',  
  dataset: 'production',  
  useCdn: true,  
  apiVersion: '2025-01-13',  
  token: 'your-auth-token',  
});
```

```
async function uploadImageToSanity(imageUrl) {  
  try {  
    console.log(`Uploading image: ${imageUrl}`);  
  
    const response = await fetch(imageUrl);  
    if (!response.ok) {  
      throw new Error(`Failed to fetch image: ${imageUrl}`);  
    }  
  }
```

```
    const buffer = await response.arrayBuffer();  
    const bufferImage = Buffer.from(buffer);
```

```
    const asset = await client.assets.upload('image', bufferImage, {  
      filename: imageUrl.split('/').pop(),  
    });
```

```
    console.log(`Image uploaded successfully: ${asset._id}`);  
    return asset._id;  
  } catch (error) {  
    console.error('Failed to upload image:', imageUrl, error);  
    return null;  
  }
```

```
}
```

```
async function uploadProduct(product) {
```

```
  try {
```

```
    const imageId = await uploadImageToSanity(product.imageUrl);
```

```
    if (imageId) {
```

```
      const document = {
```

```
        _type: 'product',
```

```
        title: product.title,
```

```
        price: product.price,
```

```
        productImage: {
```

```
          _type: 'image',
```

```
          asset: {
```

```
            _ref: imageId,
```

```
          },
```

```
        },
```

```
        tags: product.tags,
```

```
        discountPercentage: product.discountPercentage, // Typo in field name: discountPercentage ->
discountPercentage
```

```
        description: product.description,
```

```
        isNew: product.isNew,
```

```
      };
```

```
      const createdProduct = await client.create(document);
```

```
      console.log(`Product ${product.title} uploaded successfully`, createdProduct);
```

```
    } else {
```

```
      console.log(`Product ${product.title} skipped due to image upload failure.`);
```

```
    }
```

```
  } catch (error) {
```

```
    console.error('Error uploading product:', error);
```

```
  }
```

```
}
```

```

async function importProducts() {

  try {

    const response = await fetch('https://template6-six.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();

```

The screenshot shows a VS Code editor window with a file named 'importData.js' open. The file contains JavaScript code for fetching and uploading products. A red rectangular box highlights the following code block:

```

const client = createClient({
  projectId: 'a80mwshp',
  dataset: 'production',
  useCdn: true,
  apiVersion: '2025-01-13',
  token: 'skFXuEhZYKM0T05PqjGbZAceohaGwz3h950UMUrnqX7Zpdw9AYQ1bqNLz6VQsDpb0A37A1dKqJ05ZKechVTDyZrhPHsZQ6D9m1mzmNjyHy10Y9.jpg'
});

```

The rest of the code in the file includes an asynchronous function 'uploadImageToSanity' that handles image uploads to Sanity. The editor interface shows a file explorer on the left with a project structure for 'E-COMMERCE', and a status bar at the bottom indicating the current file is 'Ln 8, Col 191'.

- Run command (npm install @sanity/client axios dotenv)
- Changes in package.json

```

1 {
2   "name": "e-commerce",
3   "version": "0.1.0",
4   "type": "module",
5   "scripts": {
6     "dev": "next dev",
7     "build": "next build",
8     "start": "next start",
9     "import-data": "node scripts/importData.js"
10  },
11  "dependencies": {
12    "@sanity/image-url": "^1.1.0",
13    "@sanity/vision": "^3.70.0",
14    "next": "15.0.3",
15    "next-sanity": "^9.0.38",
16    "react": "19.0.0-rc-66855b96-20241106",
17    "react-dom": "19.0.0-rc-66855b96-20241106",
18    "react-icons": "^5.4.0",
19    "sanity": "^3.70.0",
20  }
21 }

```

Terminal output:

```

(node:33412) [DEP0040] DeprecationWarning: The 'punycode' module is deprecated. Please use a userland alternative instead.
(Use 'node --trace-deprecation ...' to show where the warning was created)
✓ Compiled / in 19s (841 modules)
o Compiling /studio/[...tool] ...
✓ Compiled /studio/[...tool] in 58.5s (4872 modules)
GET / 200 in 99710ms
GET /studio 200 in 81149ms

```

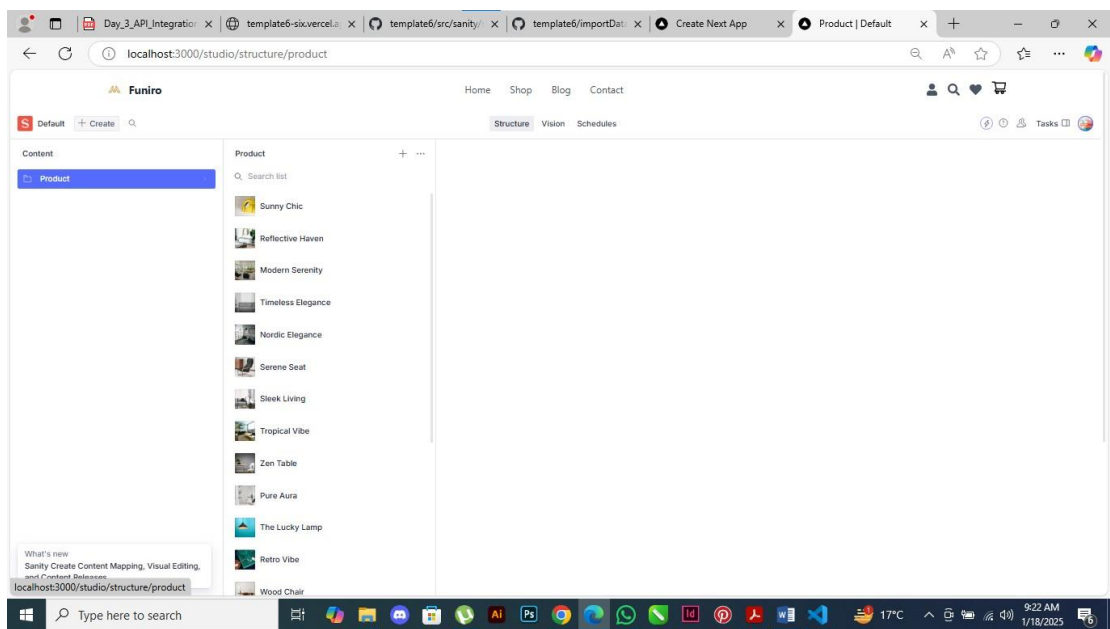
- Run command (npm run import-data)

```

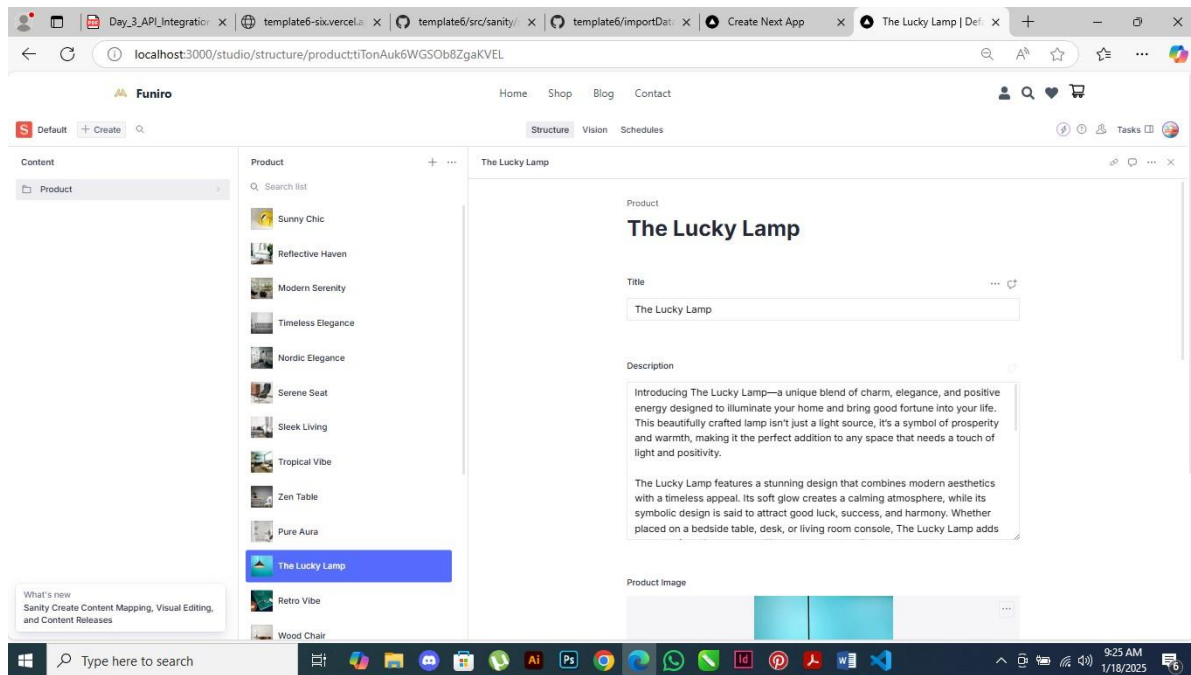
with a refreshing burst of energy and a touch of sophisticated charm.\n' +
'\n' +
'Inspired by the warmth of sunny days and the laid-back yet stylish vibe of coastal living, SunnyChic features bold colors, light fabrics
, and breezy designs that capture the spirit of summer all year round. From sunny yellows and soft neutrals to playful patterns and textures,
this collection effortlessly combines comfort with trendsetting design, creating spaces that feel both lively and inviting.\n' +
'\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 incorp
orate 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'
}

```

- Run command {npm run dev}
- <http://localhost:3000/studio>
- <http://localhost:3000/studio/structure>
- <http://localhost:3000/studio/structure/product>



- <http://localhost:3000/studio/structure/product;tiTonAuk6WGSOb8ZgaKV EL>
-



- Vision:

S

The screenshot displays the Funiro Vision web application interface. At the top, there's a navigation bar with links for Home, Shop, Blog, and Contact. Below this is a header section with a 'Default' button and a search bar. The main content area is divided into several sections: 'DATASET' (set to 'production'), 'API VERSION' (set to 'Other'), 'CUSTOM API VERSION' (set to 'v2025-01-18'), and 'PERSPECTIVE' (set to 'raw'). A 'QUERY URL (COPY TO CLIPBOARD)' field shows the URL: 'https://a80mwshp.api.sanity.io/v2025-01-18/data/query/production?query'. The 'QUERY' section contains a single query: '*[type==product]'. The 'PARAMS' section is empty. The 'RESULT' section displays a JSON array of 58 items. The first item is a product object with properties like '_type: image', '_asset: {_: 1 property}', '_ref: image-d85aa7d13ed4a7f06e46c153928620b48d89729f-5029x3353-jpg', '_createdAt: 2025-01-18T16:19:15Z', '_rev: E3wkvIAWn1jkttyW0Q7XIS', and a detailed 'description' paragraph. The 'tags' array includes 'amber', 'luxury', and 'cozy'. The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating 9:28 AM on 1/18/2025.

Funiro

Home Shop Blog Contact

Default + Create

Structure Vision Schedules

DATASET: production API VERSION: Other CUSTOM API VERSION: v2025-01-18 PERSPECTIVE: raw

QUERY URL (COPY TO CLIPBOARD): https://a80mwshp.api.sanity.io/v2025-01-18/data/query/production?query

QUERY: 1 *[type==product]

PARAMS: 1 { 2 3 }

RESULT: [~] 58 items

- 0: {~} 12 properties
 - productImage: {~} 2 properties
 - _type: image
 - _asset: {~} 1 property
 - _ref: image-d85aa7d13ed4a7f06e46c153928620b48d89729f-5029x3353-jpg
 - _createdAt: 2025-01-18T16:19:15Z
 - _rev: E3wkvIAWn1jkttyW0Q7XIS
 - _type: product
 - description: Step into a world of warmth and tranquility with Amber Haven—a collection inspired by the golden glow and timeless beauty of amber. This sophisticated line combines the soothing hues of amber with elegant, contemporary design to create a space that feels both welcoming and luxurious. Ideal for those seeking a serene escape, Amber Haven infuses your home with a sense of calm, warmth, and understated elegance. Crafted with high-quality materials and a keen eye for detail, each piece in the Amber Haven collection is designed to evoke feelings of comfort and relaxation. The soft, amber-toned accents, paired with sleek lines and refined craftsmanship, bring a touch of nature's beauty into your home. Whether you're furnishing your living room, bedroom, or dining space, Amber Haven creates an inviting atmosphere that radiates peace and sophistication. The collection's warmth and versatility allow it to seamlessly integrate into various décor styles, from modern to traditional, making it a perfect choice for those who love both timeless elegance and contemporary flair. Amber Haven offers a sanctuary of comfort and luxury, where every piece is designed to enhance your home and your well-being. Key Features: Warm amber tones and elegant design create a cozy, inviting ambiance High-quality craftsmanship and materials ensure durability and long-lasting appeal Versatile style complements a variety of interior designs, from modern to traditional Perfect for creating a serene and luxurious space in any room Ideal for those seeking a combination of beauty, comfort, and sophistication Bring the golden glow of Amber Haven into your home—where warmth, luxury, and timeless design come together to create a peaceful and elegant retreat.
 - title: Amber Haven
- tags: [~] 5 items
 - 0: amber
 - 1: luxury
 - 2: cozy

- Frontend display:

