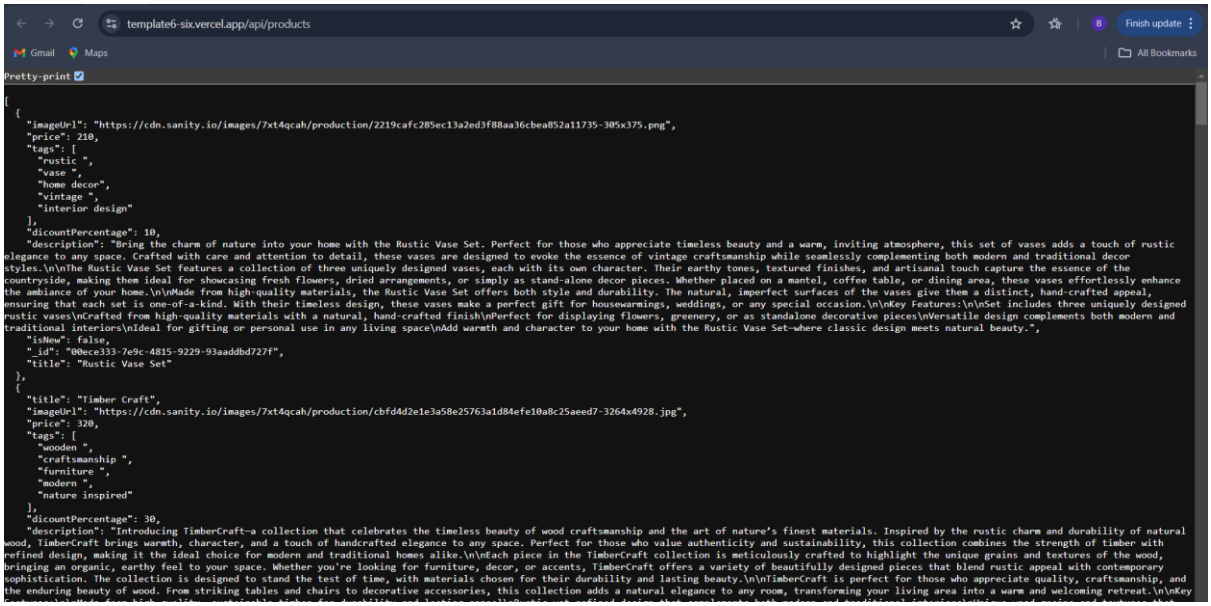
# DAY 3 OF HACKATHON 3

## API INTEGRATION AND DATA MIGRATION :

For Api integration I use this API and integrate it into my Next.js project for the products data





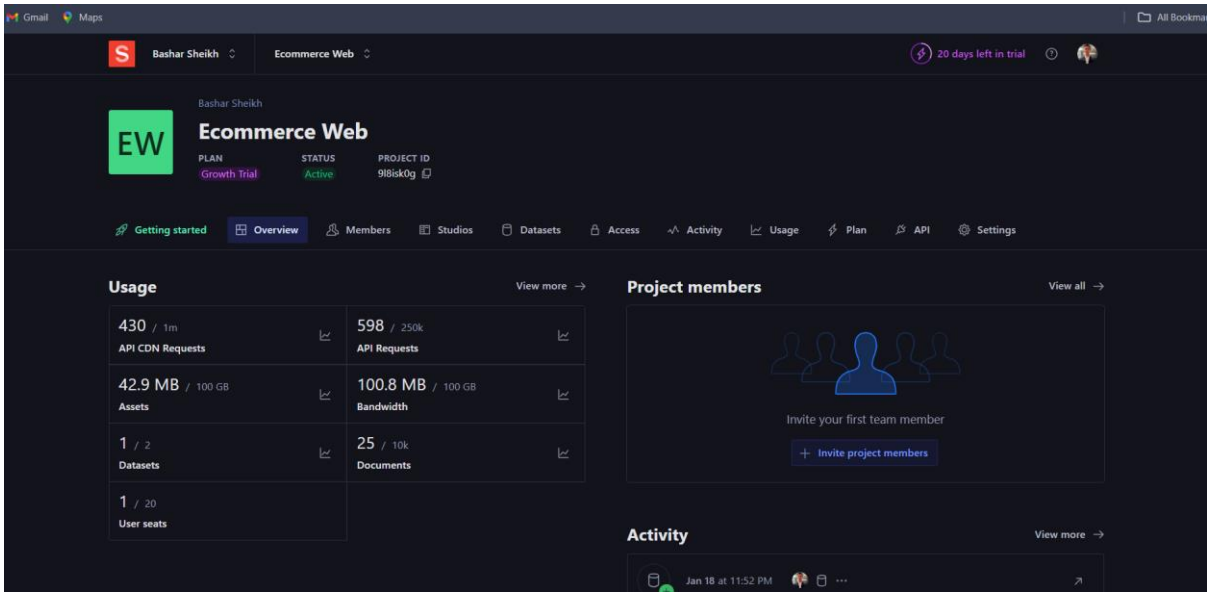
```
[
  {
    "imageUrl": "https://cdn.sanity.io/images/7xt4qcah/production/2219cafc285ec13a2ed3f88aa36cbea852a11735-305x375.png",
    "price": 210,
    "tags": [
      "rustic ",
      "vase ",
      "home decor",
      "vintage ",
      "interior design"
    ],
    "dicountPercentage": 10,
    "description": "Bring the charm of nature into your home with the Rustic Vase Set. Perfect for those who appreciate timeless beauty and a warm, inviting atmosphere, this set of vases adds a touch of rustic
elegance to any space. Crafted with care and attention to detail, these vases are designed to evoke the essence of vintage craftsmanship while seamlessly complementing both modern and traditional decor
styles.\n\nThe Rustic Vase Set features a collection of three uniquely designed vases, each with its own character. Their earthy tones, textured finishes, and artisanal touch capture the essence of the
countryside, making them ideal for showcasing fresh flowers, dried arrangements, or simply as stand-alone decor pieces. Whether placed on a mantel, coffee table, or dining area, these vases effortlessly enhance
the ambiance of your home.\n\nMade from high-quality materials, the Rustic Vase Set offers both style and durability. The natural, imperfect surfaces of the vases give them a distinct, hand-crafted appeal,
ensuring that each set is one-of-a-kind. With their timeless design, these vases make a perfect gift for housewarmings, weddings, or any special occasion.\n\nKey Features:\n\nSet includes three uniquely designed
rustic vases\nCrafted from high-quality materials with a natural, hand-crafted finish\nPerfect for displaying flowers, greenery, or as standalone decorative pieces\nVersatile design complements both modern and
traditional interiors\nIdeal for gifting or personal use in any living space\nAdd warmth and character to your home with the Rustic Vase Set—where classic design meets natural beauty.",
    "isNew": false,
    "_id": "00ece333-7e9c-4815-9229-93aaddbd727f",
    "title": "Rustic Vase Set"
  },
  {
    "title": "Timber Craft",
    "imageUrl": "https://cdn.sanity.io/images/7xt4qcah/production/cbfd4d2e1e3a58e25763a1d84efe10a8c25aeed7-3264x4928.jpg",
    "price": 320,
    "tags": [
      "wooden ",
      "craftsmanship ",
      "furniture ",
      "modern ",
      "nature inspired"
    ],
    "dicountPercentage": 30,
    "description": "Introducing TimberCraft—a collection that celebrates the timeless beauty of wood craftsmanship and the art of nature's finest materials. Inspired by the rustic charm and durability of natural
wood, TimberCraft brings warmth, character, and a touch of handcrafted elegance to any space. Perfect for those who value authenticity and sustainability, this collection combines the strength of timber with
refined design, making it the ideal choice for modern and traditional homes alike.\n\nEach piece in the TimberCraft collection is meticulously crafted to highlight the unique grains and textures of the wood,
bringing an organic, earthy feel to your space. Whether you're looking for furniture, decor, or accents, TimberCraft offers a variety of beautifully designed pieces that blend rustic appeal with contemporary
sophistication. The collection is designed to stand the test of time, with materials chosen for their durability and lasting beauty.\n\nTimberCraft is perfect for those who appreciate quality, craftsmanship, and
the enduring beauty of wood. From striking tables and chairs to decorative accessories, this collection adds a natural elegance to any room, transforming your living area into a warm and welcoming retreat.\n\nKey
```


## INSTALL SANITY:

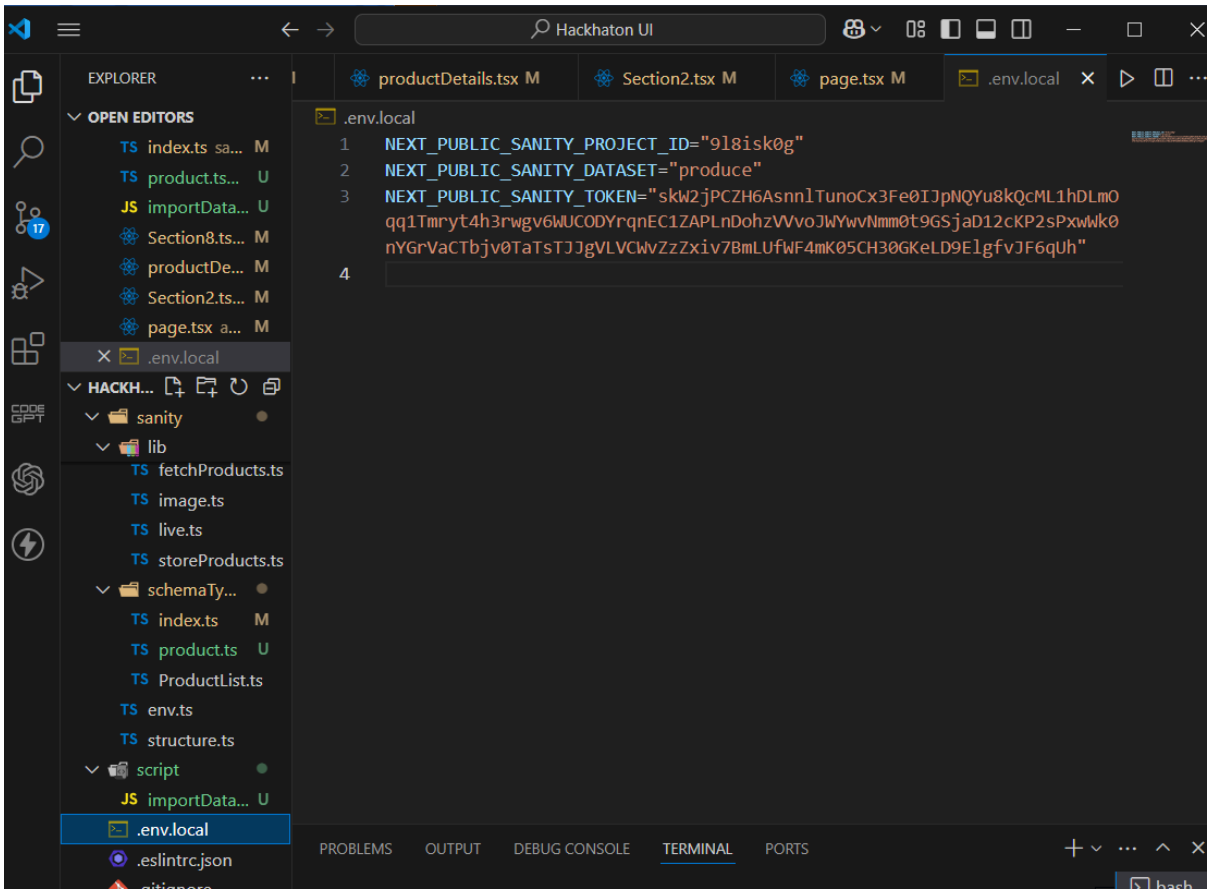
I use this command for install sanity to my nextjs project

- npm install -g @sanity/cli
- npx sanity init
- npm install react@^18.3 react-dom@^18.3
- npm install sanity @sanity/image-url @sanity/vision next-sanity
- npm run dev

# Integrate sanity dashboard with nextjs project



I use .env file to store sanity project id and token




## SCHEMA:

For schema of the products I have created exact schema for product data like mentioned in the api.

```
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: 'slug',
                title: 'Slug',
                type: 'slug',
                options: {
                  source: 'name',
                  maxLength: 96,
                },
              },
        {
            name:"description",
            type:"text",
            validation: (rule) => rule.required(),
            title:"Description",
        },
        {
            name: "productImage",
            type: "image",
            validation: (rule) => rule.required(),
            title: "Product Image"
        },
        {
            name: "price",
```

```
            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:"dicountPercentage",
            type:"number",
            title:"Discount Percentage",
        },
        {
            name:"isNew",
            type:"boolean",
            title:"New Badge",
        }
    ]
})
```

# MIGRATE DATA TO SANITY

I have created a new file with name of importData.js for integrating the data of api into sanity for updating and changing easily

```
script > JS importData.js > client > dataset

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,
        dicountPercentage: product.dicountPercentage, // Typo in field name: dicountPercentage -> 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}`);
```

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

const client = createClient({
  projectId:"9l8isk0g",
  dataset: 'produce',
  useCdn: true,
  apiVersion: '2025-01-13',
  token:"skW2jPCZHGAsnnlTunoCx3Fe0IJpNQYu8kQcML1hDLmOqq1Tmryt4h3rwgv6WUCODYrqnEC1ZAPLnDohzVVvoJWYwvNmm0t9GSjaD12cKP2sPxwWk0nYGrVaCTbjv0TaTsTJJgVLV
  WvZzZxiv7BmLUfWF4mK05CH30GKeLD9ElgfvJF6qUh",
});

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;
  }
}
```

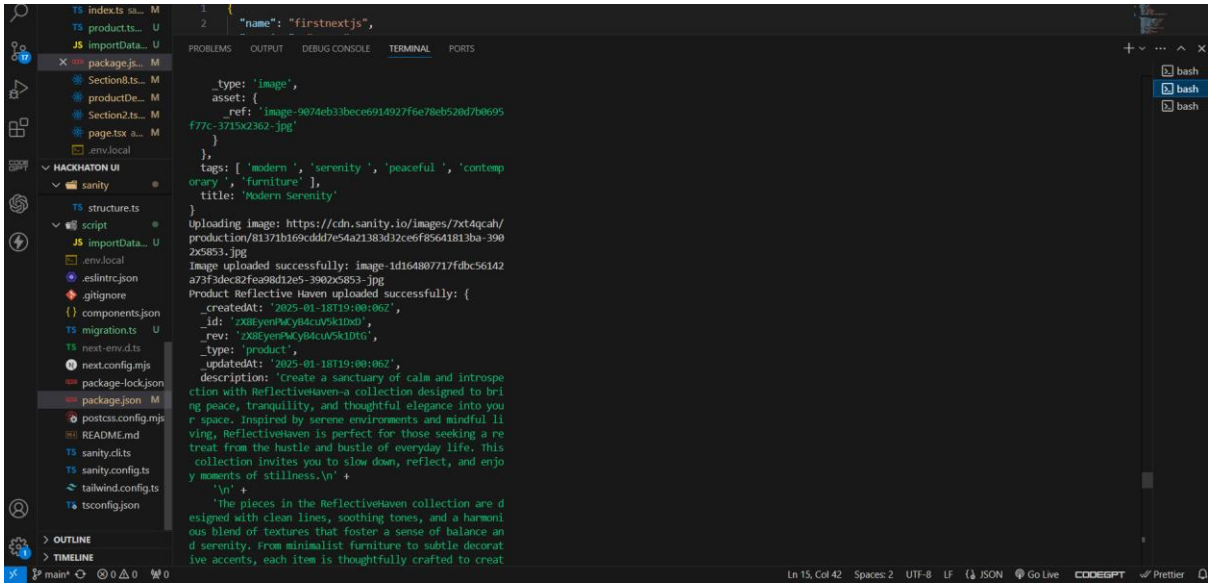
```
}
}

async function 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();
```

Add this to package.json file to import data tp sanity

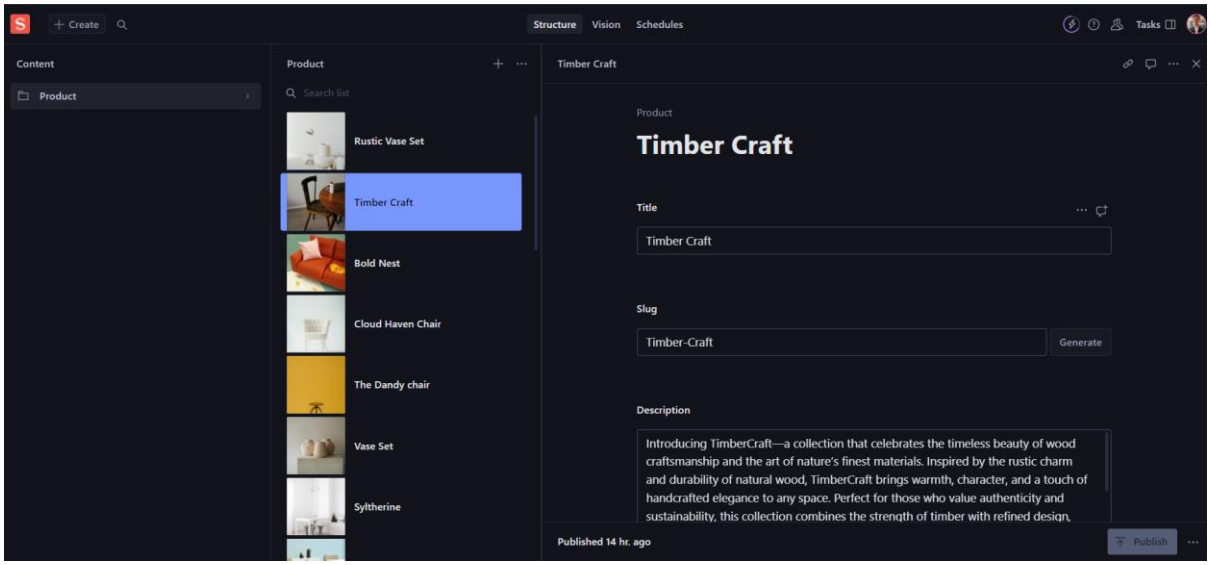
```
"import-data": "node script/importData.js"
```

Run this command in terminal to import all the data from the api into sanity

```
s-apps/Hackhaton UI (main)
$ npm run import-data
```

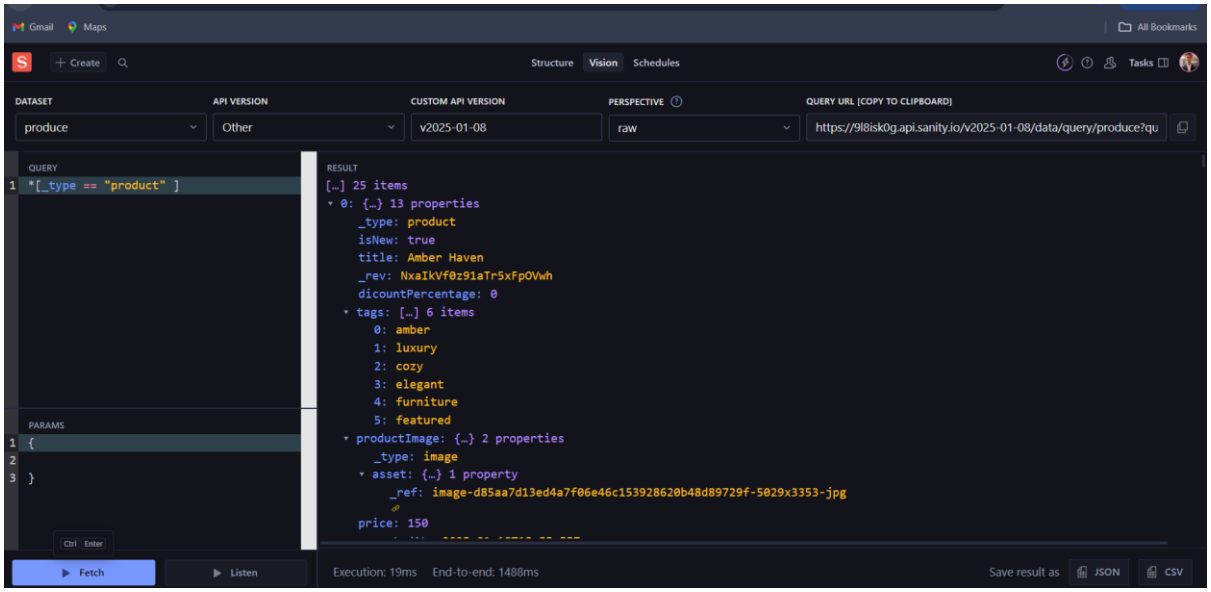


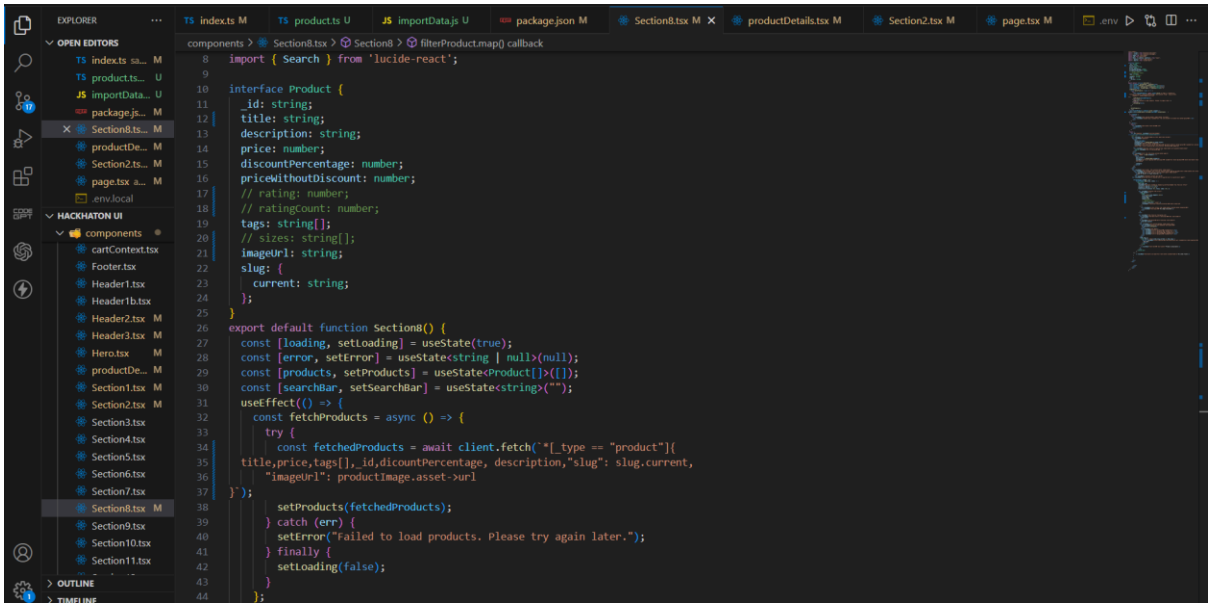

All the data will be stored in the sanity .




# INTEGRATE PRODUCT DATA FROM SANITY TO NEXTJS FILE :

Go to the sanity studio by using this command http://localhost:3000/studio and go the vision section use GROQ query and implement it into sanity project like this :




All the products will show in the ui page like this :

Search product categories...

Men Women

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**Amber Haven**

Step into a world of warmth and tranquility with Amber Haven—a collection…

$150.00

Infuse your home with ligh…

$180.00

Introducing the Wood Chair —a beautifully crafted piece that blends timeless…

$100.00

where modern sophistication meets…

$300.00