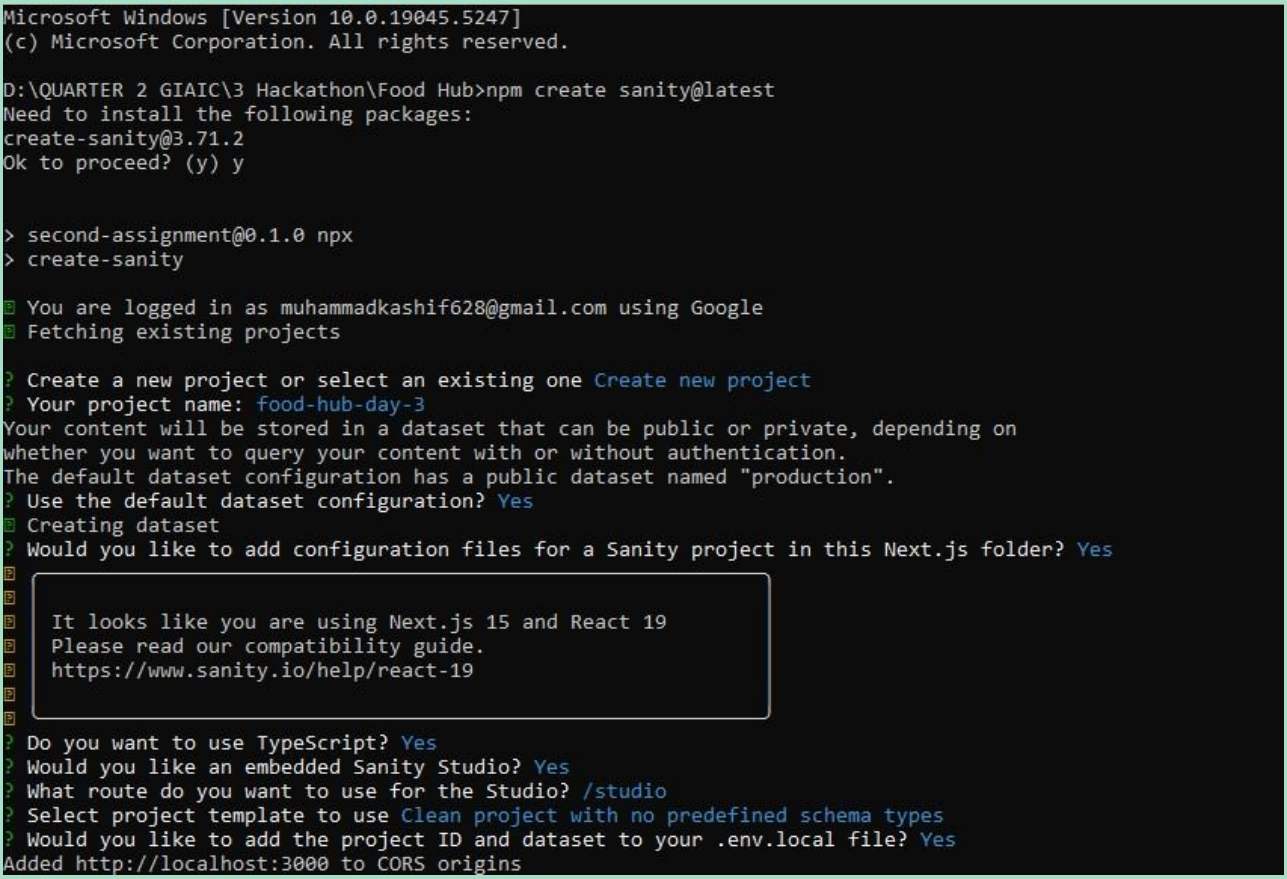
DAY-3 API INTEGRATION & DATA MIGRATIN REPORT - [FOOD HUB]

STEPS TO PERFROM THE ABOVE STATED JOB SUCCESSFULLY.

1st - Installed the Sanity Studio in Next.js project with the following command.

npm create sanity@latest

1. I have create an account. Select a login provider from the list of options, and confirm with Enter. After creating an account in the browser, come back to the command line window.
2. It has ask me the following questions.
    - Would you like to add configuration files for a Sanity project in this Next.js folder? **Yes**
    - Would you like an embedded Sanity Studio? **Yes**
    - Would you like to use the Next.js app directory for routes? **Yes**
    - What route do you want to use for the Studio? **/studio**
    - **Select project template to use Clean project with no predefined schemas**
    - Would you like to add the project ID and dataset to your .env file? **Yes**
3. Wait a bit for the installation process to complete. When I get a Success! message, I was good to move on to the next step!! 🚀



```
added 8 packages, and audited 1294 packages in 13s

240 packages are looking for funding
  run `npm fund` for details

3 vulnerabilities (2 moderate, 1 high)

To address issues that do not require attention, run:
  npm audit fix

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 GIAIC\3 Hackathon\Food Hub>
```

2nd -Generating the Token Number.

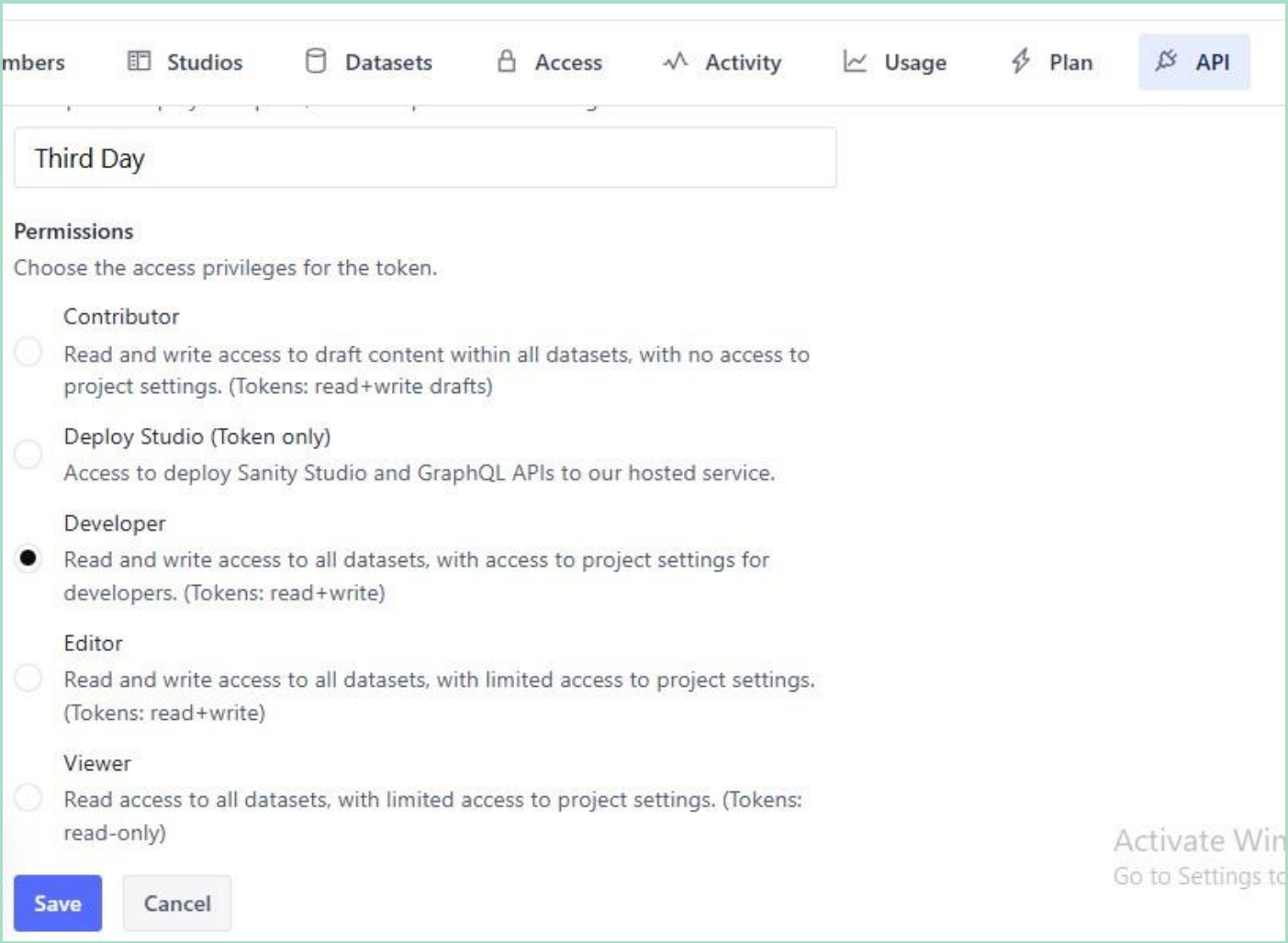
After the successful installation of sanity studio, visit the browser and open the

https://www.sanity.io/manage?ref=homepage

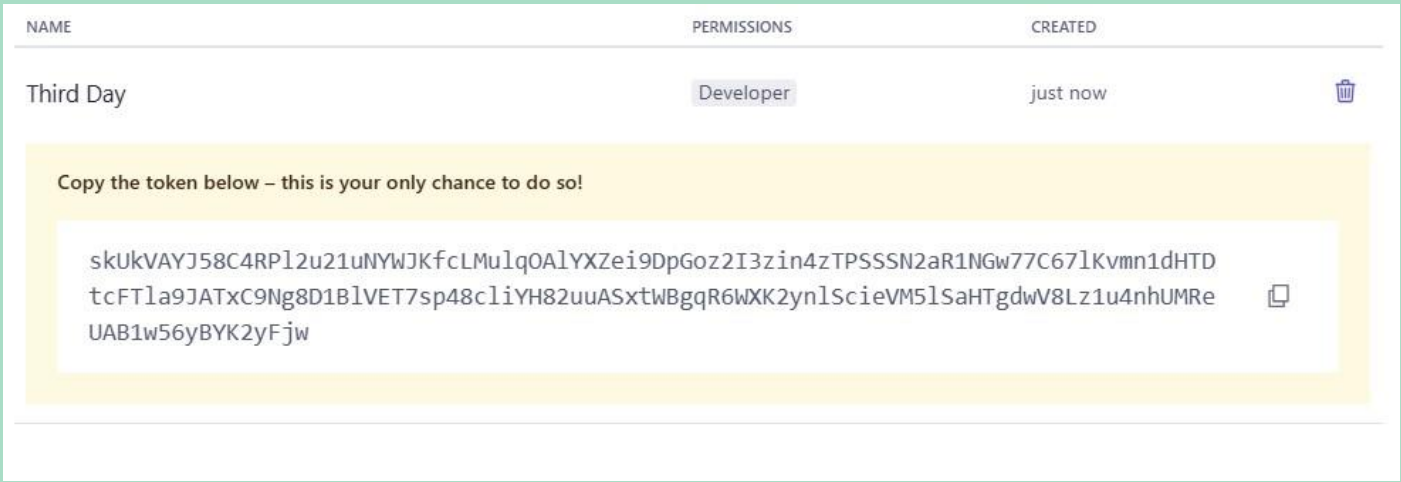
In sanity studio I have founded there my project and I have clicked on it to view my project detail.

Like… Project ID, Generating of Token in API Link.

After this step I have click on given API link to generate the **Token Number** for my project use. I have given the API name **Third Day** to generate the Token number and **marked** on the **Developer** to read and write access to all datasets and in last press the save button.



Token number Generated Successfully.



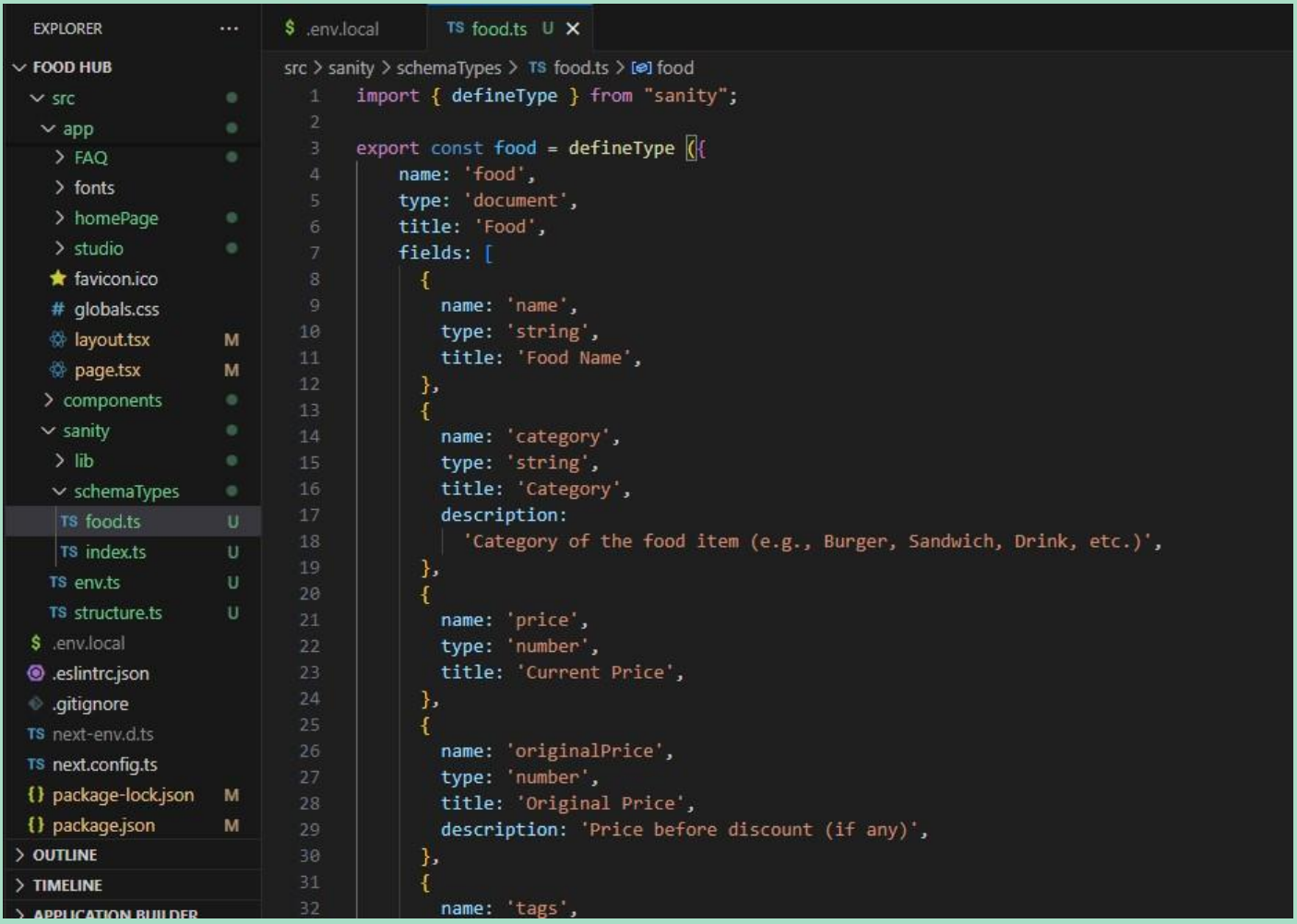
3rd- .env.local File.

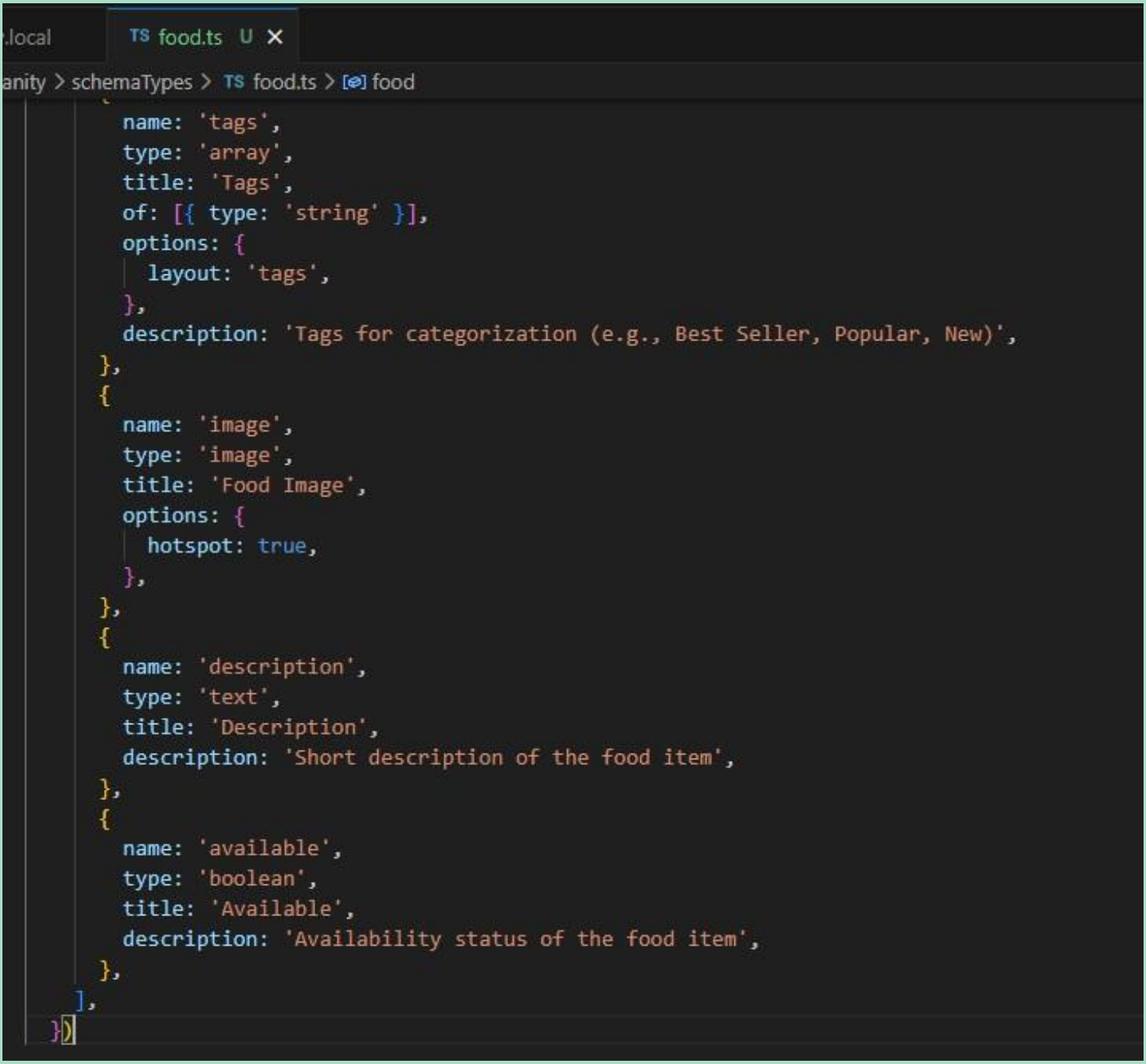
I have added my project ID and Token number in **.env.local** file.

4rd- Define Schema.

Next step was of my project to integrate the API of **Sir Mubashir** **template-09** in sanity studio in his provided GitHub repository.

I have made the schema type in my project of **Food.ts** as the given in GitHub repository.

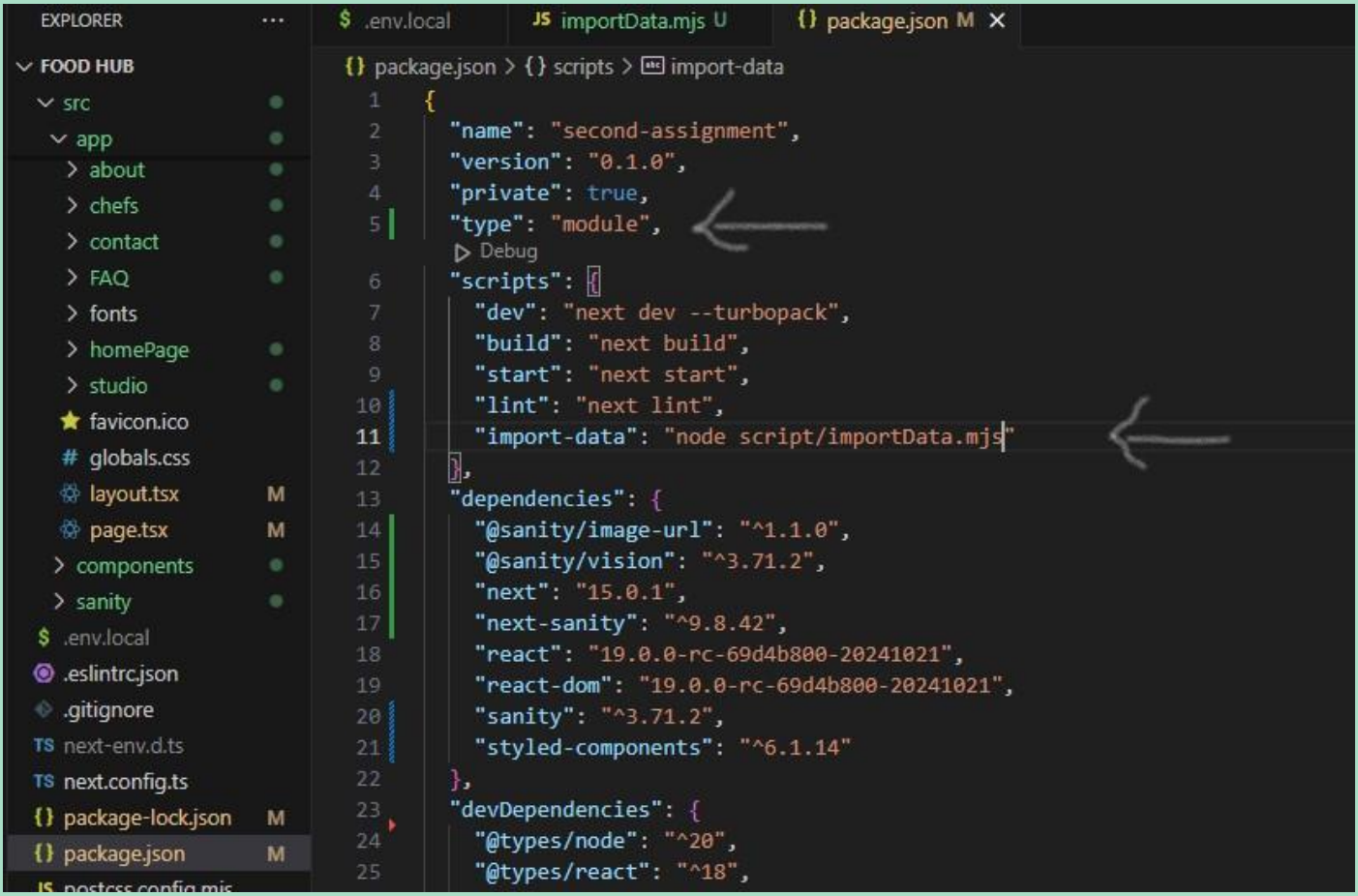




5th- Adding in Package.json File.

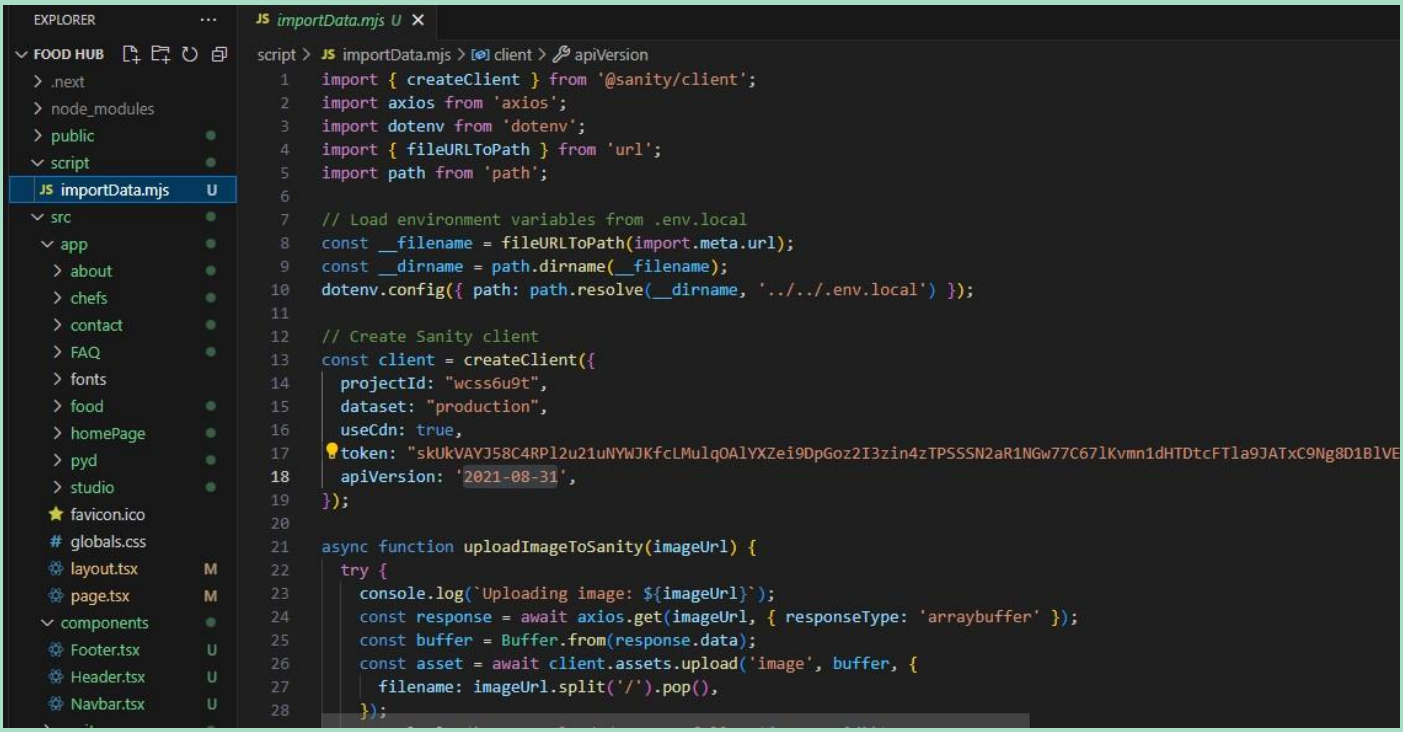
In Package.json file I have added 2 things.

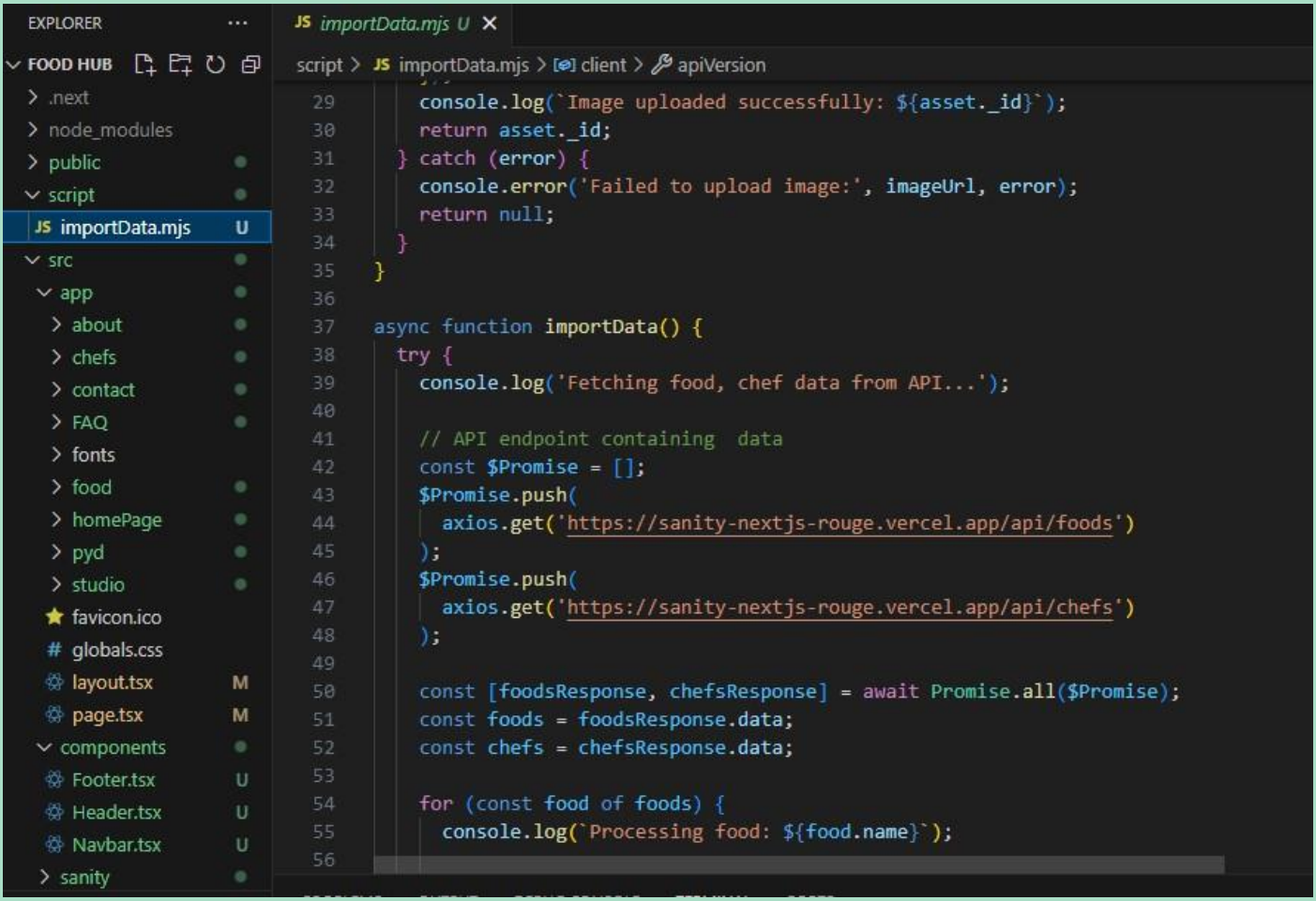
1- **"type": "module",** (in line number 5)
2- **"import-data": "node script/importdata.mjs"** (in line number 11)



6th- Script folder & importData.mjs File.

I have made **Script Folder** before the src/app route & add the file **importData.mjs** in this to import the provided API of sir Mubashir of template-09 in sanity studio.




EXPLORER
importData.mjs U
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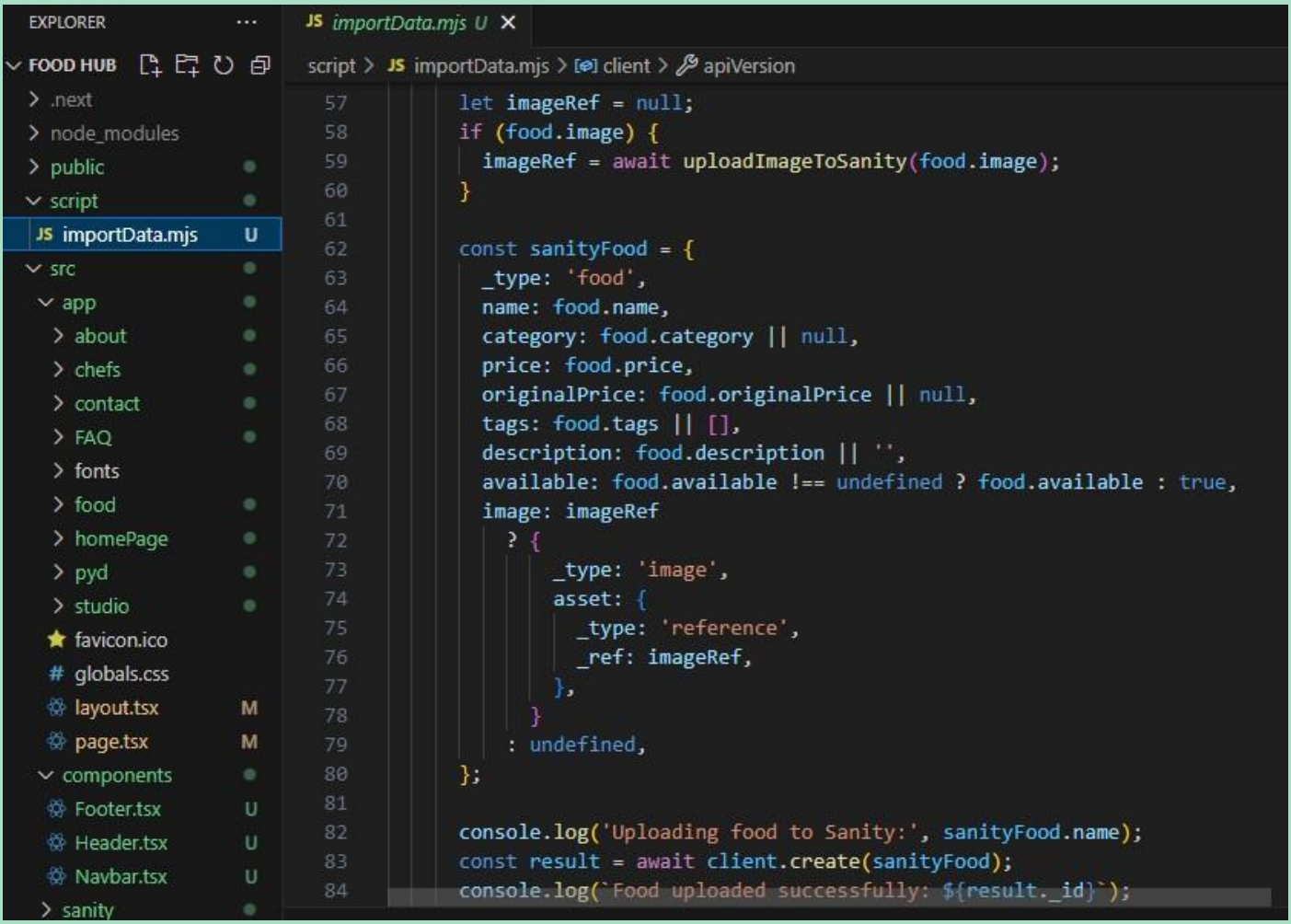
favicon.ico
globals.css
layout.tsx M
page.tsx M
components
Footer.tsx U
Header.tsx U
Navbar.tsx U
sanity
29 console.log(`Image uploaded successfully: ${asset._id}`);
30 return asset._id;
31 } catch (error) {
32 console.error('Failed to upload image:', imageUrl, error);
33 return null;
34 }
35 }
36
37 async function importData() {
38 try {
39 console.log('Fetching food, chef data from API...');
40
41 // API endpoint containing data
42 const $Promise = [];
43 $Promise.push(
44 axios.get('https://sanity-nextjs-rouge.vercel.app/api/foods')
45);
46 $Promise.push(
47 axios.get('https://sanity-nextjs-rouge.vercel.app/api/chefs')
48);
49
50 const [foodsResponse, chefsResponse] = await Promise.all($Promise);
51 const foods = foodsResponse.data;
52 const chefs = chefsResponse.data;
53
54 for (const food of foods) {
55 console.log(`Processing food: ${food.name}`);
56


EXPLORER
importData.mjs U
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script > importData.mjs > client > apiVersion
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homePage
pyd
studio
favicon.ico
globals.css
layout.tsx M
page.tsx M
components
Footer.tsx U
Header.tsx U
Navbar.tsx U
sanity
57 let imageRef = null;
58 if (food.image) {
59 imageRef = await uploadImageToSanity(food.image);
60 }
61
62 const sanityFood = {
63 _type: 'food',
64 name: food.name,
65 category: food.category || null,
66 price: food.price,
67 originalPrice: food.originalPrice || null,
68 tags: food.tags || [],
69 description: food.description || '',
70 available: food.available !== undefined ? food.available : true,
71 image: imageRef
72 ? {
73 _type: 'image',
74 asset: {
75 _type: 'reference',
76 _ref: imageRef,
77 },
78 }
79 : undefined,
80 };
81
82 console.log('Uploading food to Sanity:', sanityFood.name);
83 const result = await client.create(sanityFood);
84 console.log(`Food uploaded successfully: ${result._id}`);

7th- Run the command to Import the data.

npm run import-data

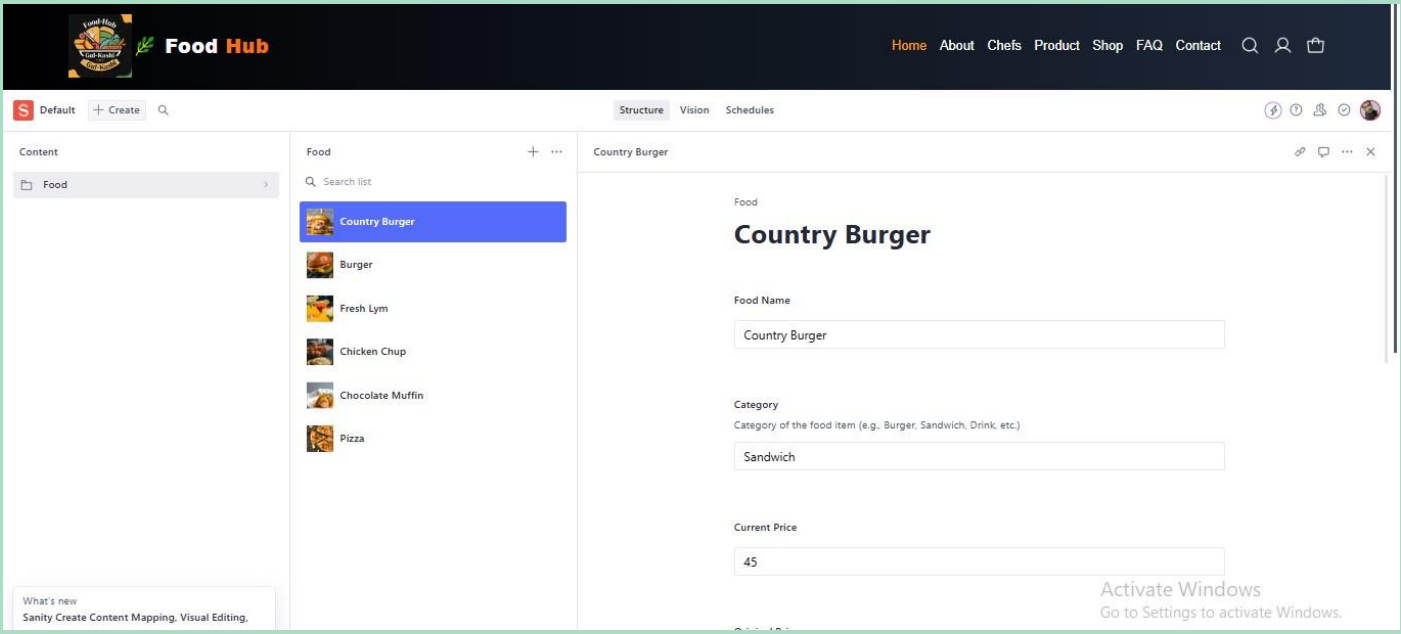
After running this command my API data has been imported successfully in sanity.

```
D:\QUARTER 2 GIAIC\3 Hackathon\Food Hub>npm run import-data

> second-assignment@0.1.0 import-data
> node script/importData.mjs

Fetching food, chef data from API...
Processing food: Fresh Lime
Uploading image: https://sanity-nextjs-rouge.vercel.app/food/food-1.png
Image uploaded successfully: image-e155a50cdbcd0e02ca81649945bd30a2fc111276-1248x1068-png
Uploading food to Sanity: Fresh Lime
Food uploaded successfully: jlMWfT8LIQ8u85ZAszAMrA
Processing food: Chocolate Muffin
Uploading image: https://sanity-nextjs-rouge.vercel.app/food/food-2.png
Image uploaded successfully: image-2392122ad0508b5c890aebd8ca36436c214fd7db-1248x1068-png
Uploading food to Sanity: Chocolate Muffin
Food uploaded successfully: jlMWfT8LIQ8u85ZAszAN9e
Processing food: Burger
Uploading image: https://sanity-nextjs-rouge.vercel.app/food/food-3.png
Image uploaded successfully: image-95a970acfaa0bc5e7df93be9527c2d8a1bc93562-1248x1068-png
Uploading food to Sanity: Burger
Food uploaded successfully: jlMWfT8LIQ8u85ZAszANS8
Processing food: Country Burger
Uploading image: https://sanity-nextjs-rouge.vercel.app/food/food-4.png
Image uploaded successfully: image-ea501a87e980fc084fb7deacca2c3538b167a477-1248x1068-png
Uploading food to Sanity: Country Burger
Food uploaded successfully: jlMWfT8LIQ8u85ZAszANeS
Processing food: Pizza
Uploading image: https://sanity-nextjs-rouge.vercel.app/food/food-5.png
Image uploaded successfully: image-59499bc14b7749f088d0017b8871e06a47a9deb1-1248x1068-png
Uploading food to Sanity: Pizza
Food uploaded successfully: jlMWfT8LIQ8u85ZAszANnh
Processing food: Chicken Chup
Uploading image: https://sanity-nextjs-rouge.vercel.app/food/food-6.png
Image uploaded successfully: image-79c2f2263eb44b0c35a3b7d0f53bd9a34a5700b6-1248x1068-png
Uploading food to Sanity: Chicken Chup
Food uploaded successfully: jlMWfT8LIQ8u85ZAszAO01
Processing chef: Tahmina Rumi
Uploading image: https://sanity-nextjs-rouge.vercel.app/chef/chef-1.png
Image uploaded successfully: image-62f6ba8dd16f1b27ea593b692ee692bfb8eb860c-1248x1517-png
Uploading chef to Sanity: Tahmina Rumi
Chef uploaded successfully: dz1f6LoFiz4haFkvgn1CyM
```

```
Processing chef: Jorina Begum
Uploading image: https://sanity-nextjs-rouge.vercel.app/chef/chef-2.png
Image uploaded successfully: image-a8a4535b34a230733d2ef6eb5c0a4169f65226d5-1248x1517-png
Uploading chef to Sanity: Jorina Begum
Chef uploaded successfully: jlMWfT8LIQ8u85ZAszAOLa
Processing chef: M. Mohammad
Uploading image: https://sanity-nextjs-rouge.vercel.app/chef/chef-3.png
Image uploaded successfully: image-9b9161acc32440ad4a6b853851b9c232b9c9c53e-1248x1517-png
Uploading chef to Sanity: M. Mohammad
Chef uploaded successfully: dz1f6LoFiz4haFkvgn1DOY
Processing chef: Munna Kathy
Uploading image: https://sanity-nextjs-rouge.vercel.app/chef/chef-4.png
Image uploaded successfully: image-03eb4eacebd8ca11b707cfc569b87894b4e9bd57-1248x1517-png
Uploading chef to Sanity: Munna Kathy
Chef uploaded successfully: 0lAzcbUv2dscuQkndQo3IL
Processing chef: Bisnu Devgon
Uploading image: https://sanity-nextjs-rouge.vercel.app/chef/chef-5.png
Image uploaded successfully: image-7576fb850ddb0f7d4cefab457f848c09a816186d-1248x1517-png
Uploading chef to Sanity: Bisnu Devgon
Chef uploaded successfully: dz1f6LoFiz4haFkvgn1DsU
Processing chef: William Rumi
Uploading image: https://sanity-nextjs-rouge.vercel.app/chef/chef-6.png
Image uploaded successfully: image-ef1c3b9ecfd9bc1aad0a931c6b4c564d6939e4f8-1248x1517-png
Uploading chef to Sanity: William Rumi
Chef uploaded successfully: jlMWfT8LIQ8u85ZAszAOwY
Data import completed successfully!

D:\QUARTER 2 GIAIC\3 Hackathon\Food Hub>
```

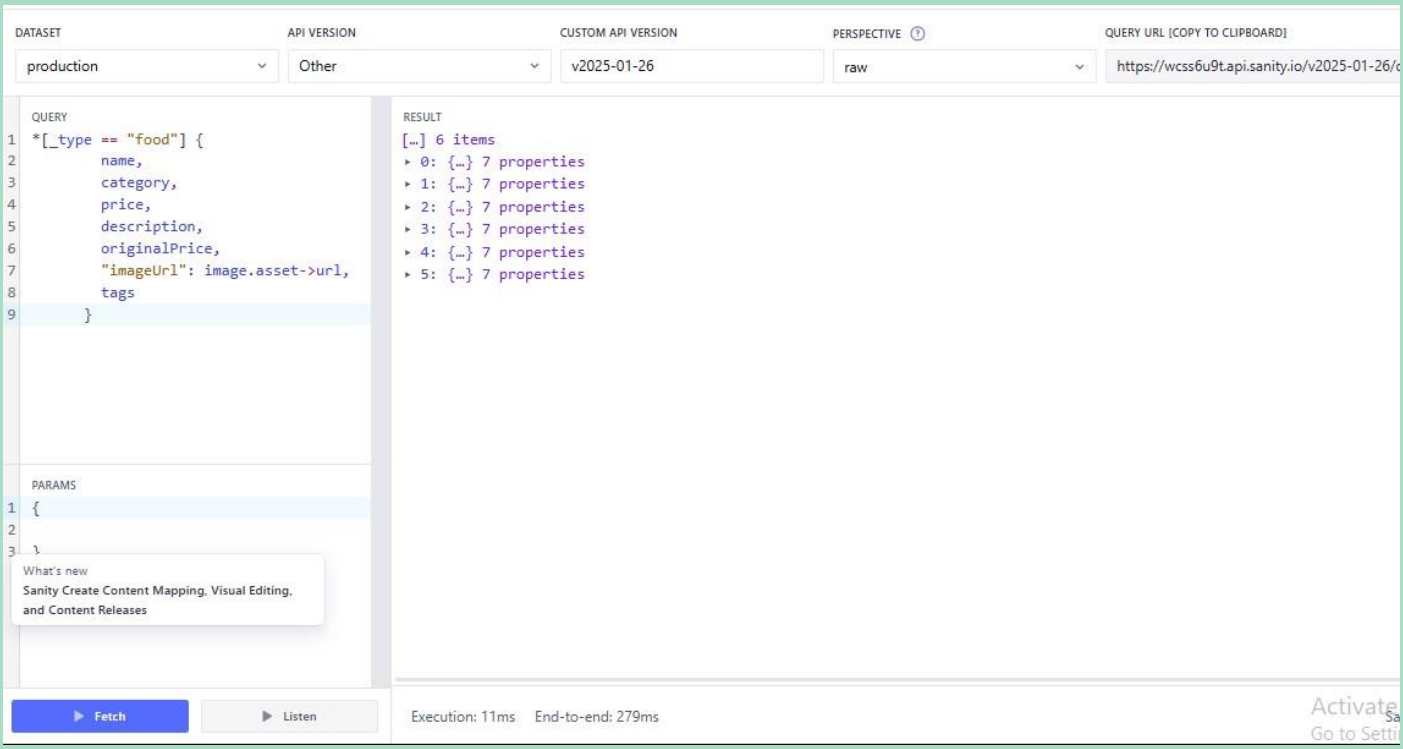
8th- Open the Sanity Studio & see the Import Data.

After the successfully completion of above command I have founded my API Food Data on sanity studio.



9th- Checking of GROQ QUERY in Sanity Vision.

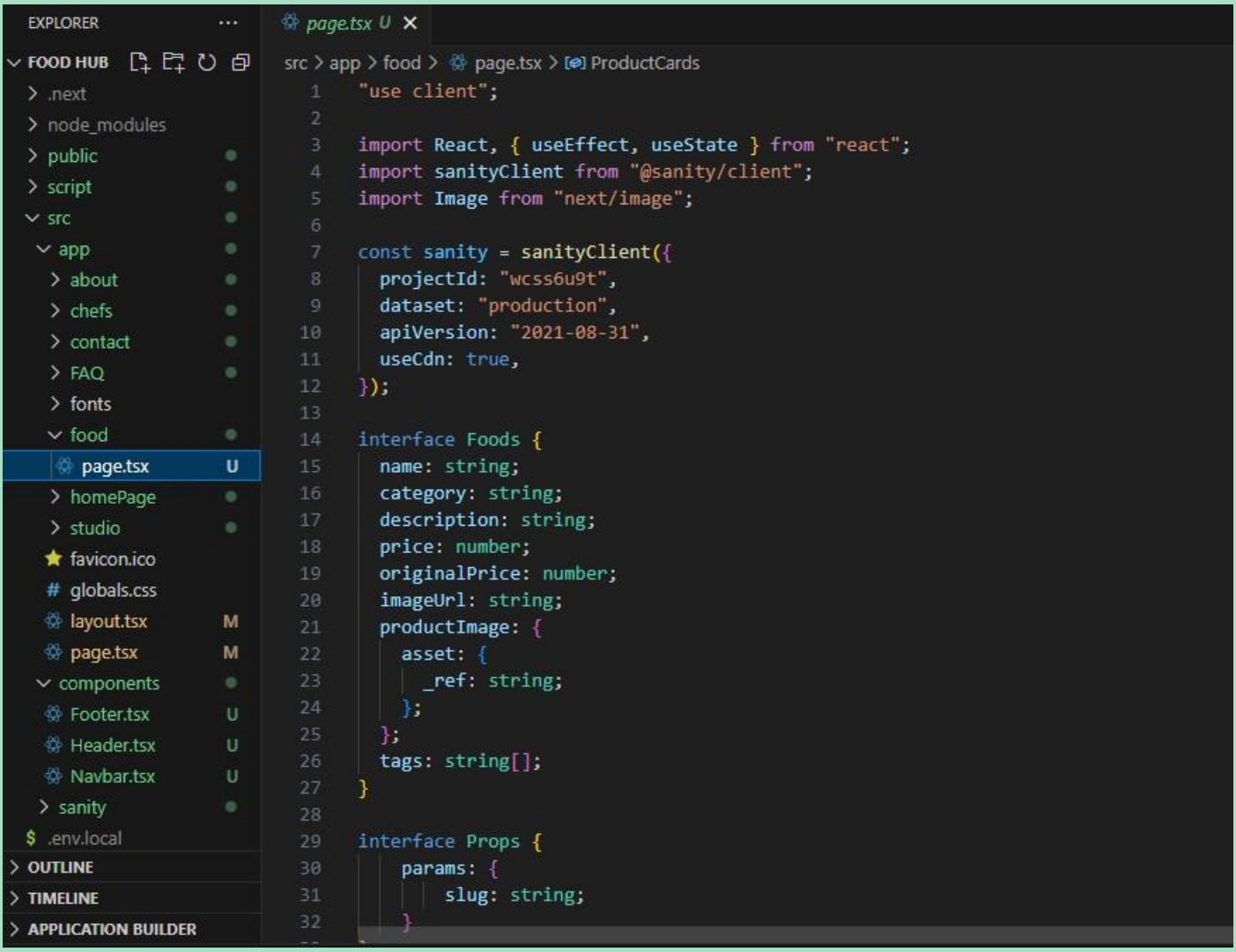
To display & fetching the import data on my frontend, I have checked first in Sanity Vision that it is fetching & working properly or not.

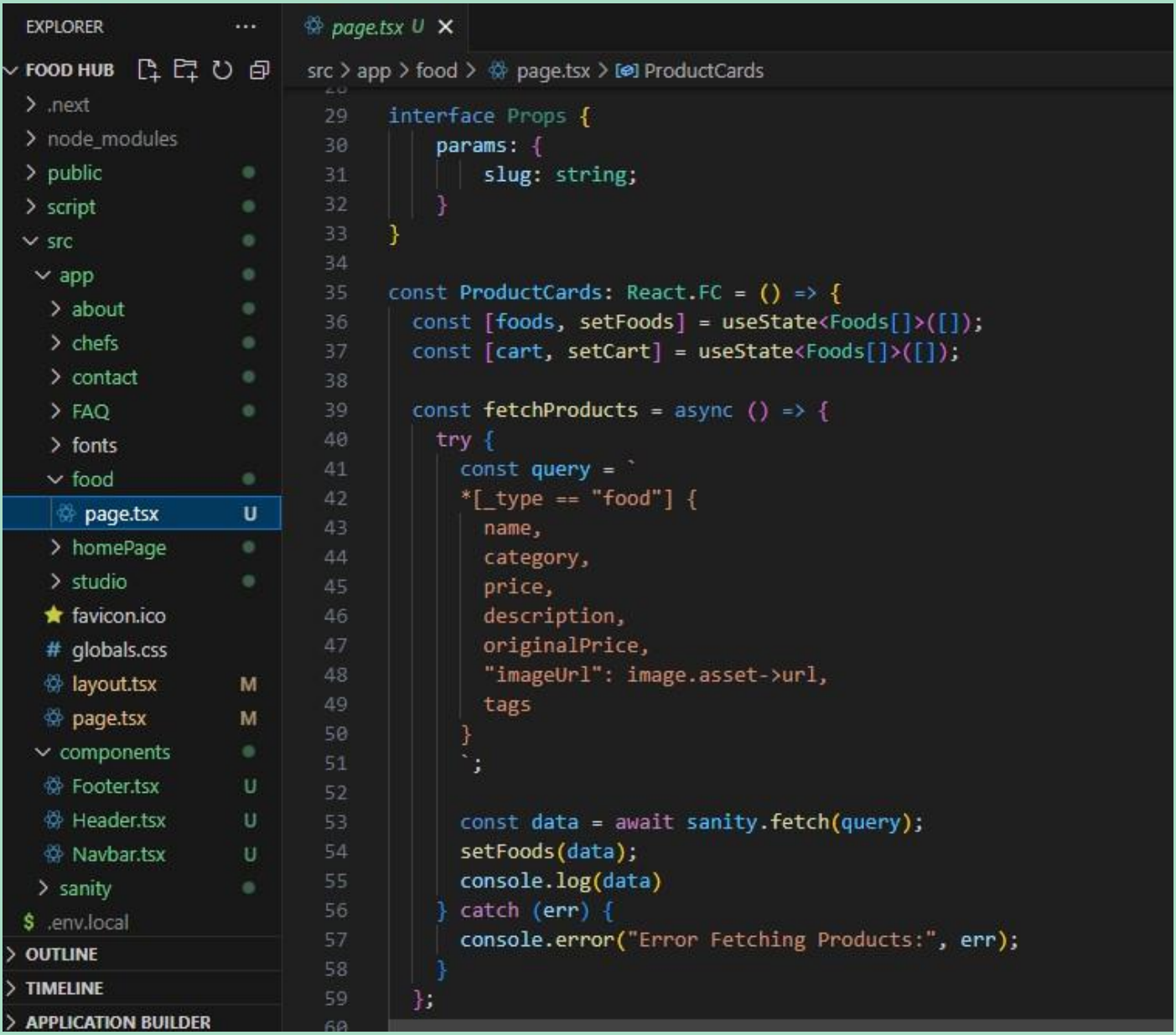


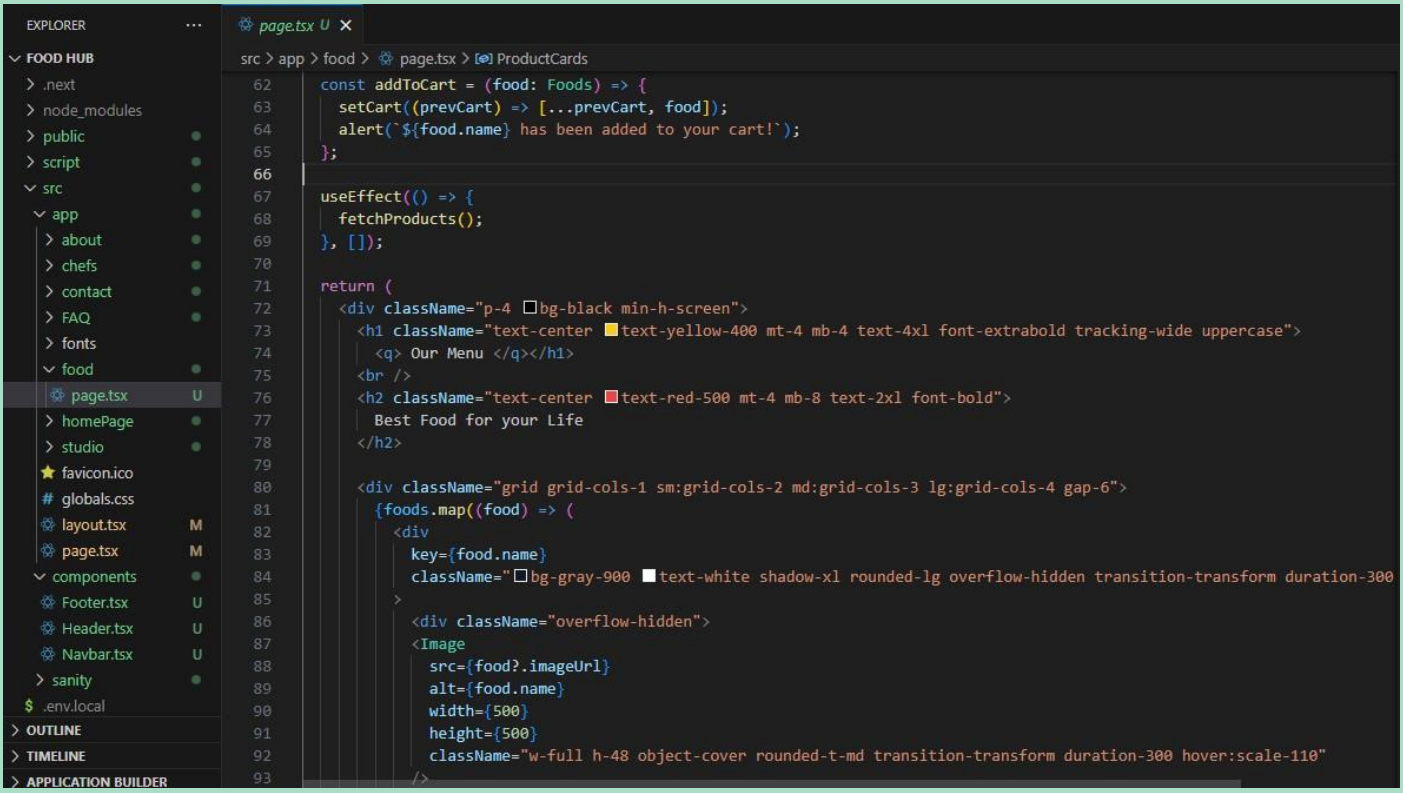
I have found that my GROQ Query is working properly and fetching the all data which is given in provided API.

10th- Migrate the data on Frontend.

To migrate the data from the Sanity studio to Frontend of my project. I have made a Food folder in src/app route and fetch the data with the help of **Map method**, **useEstate** & **useEffect** hooks.




EXPLORER
FOOD HUB
.next
node_modules
public
script
src
app
about
chefs
contact
FAQ
fonts
food
page.tsx U
homePage
studio
favicon.ico
globals.css
layout.tsx M
page.tsx M
components
Footer.tsx U
Header.tsx U
Navbar.tsx U
sanity
.env.local
OUTLINE
TIMELINE
APPLICATION BUILDER
page.tsx U
src > app > food > page.tsx > ProductCards
interface Props {
params: {
slug: string;
}
}
const ProductCards: React.FC = () => {
const [foods, setFoods] = useState<Foods[]>([]);
const [cart, setCart] = useState<Foods[]>([]);
const fetchProducts = async () => {
try {
const query = `
*[_type == "food"] {
name,
category,
price,
description,
originalPrice,
"imageUrl": image.asset->url,
tags
}
`;
const data = await sanity.fetch(query);
setFoods(data);
console.log(data)
} catch (err) {
console.error("Error Fetching Products:", err);
}
};


EXPLORER
page.tsx U
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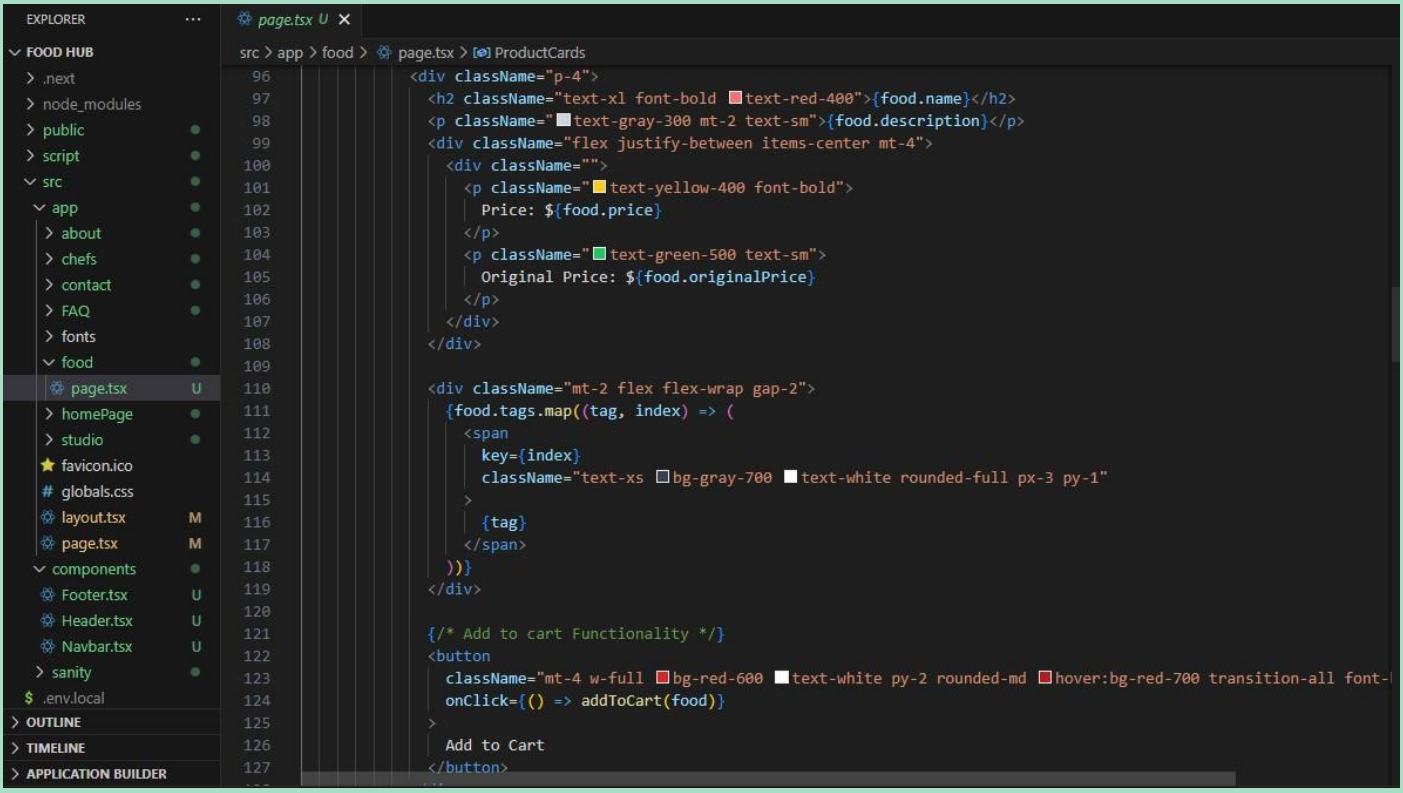
Footer.tsx U
Header.tsx U
Navbar.tsx U
sanity
.env.local
OUTLINE
TIMELINE
APPLICATION BUILDER
src > app > food > page.tsx > ProductCards
const addToCart = (food: Foods) => {
setCart((prevCart) => [...prevCart, food]);
alert(`${food.name} has been added to your cart!`);
};
useEffect(() => {
fetchProducts();
}, []);
return (

<h1 className="text-center text-yellow-400 mt-4 mb-4 text-4xl font-extrabold tracking-wide uppercase">
<q> Our Menu </q></h1>

<h2 className="text-center text-red-500 mt-4 mb-8 text-2xl font-bold">
Best Food for your Life
</h2>

{foods.map((food) => (
<div
key={food.name}
className="bg-gray-900 text-white shadow-xl rounded-lg overflow-hidden transition-transform duration-300
>

<Image
src={food?.imageUrl}
alt={food.name}
width={500}
height={500}
className="w-full h-48 object-cover rounded-t-md transition-transform duration-300 hover:scale-110"
/>


EXPLORER
page.tsx U
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Header.tsx U
Navbar.tsx U
sanity
.env.local
OUTLINE
TIMELINE
APPLICATION BUILDER
src > app > food > page.tsx > ProductCards

<h2 className="text-xl font-bold text-red-400">{food.name}</h2>
{food.description}

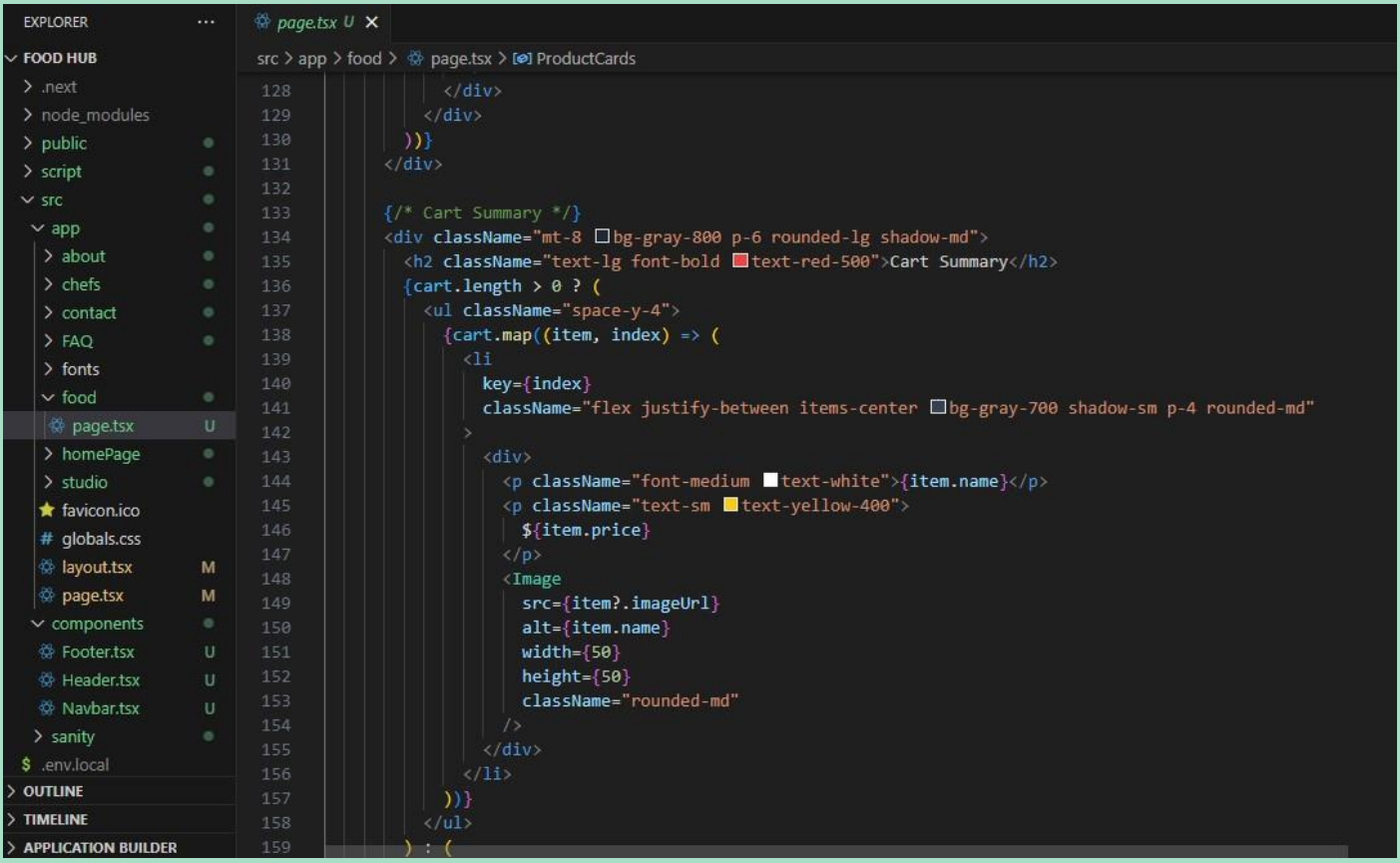
Price: ${food.price}

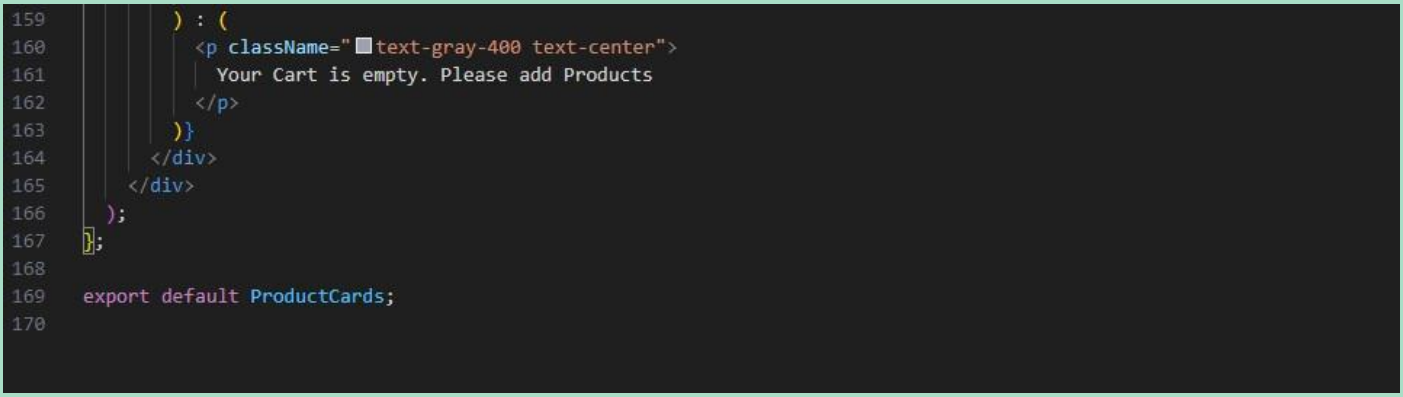
Original Price: ${food.originalPrice}

{food.tags.map((tag, index) => (
<span
key={index}
className="text-xs bg-gray-700 text-white rounded-full px-3 py-1"
>
{tag}

))}

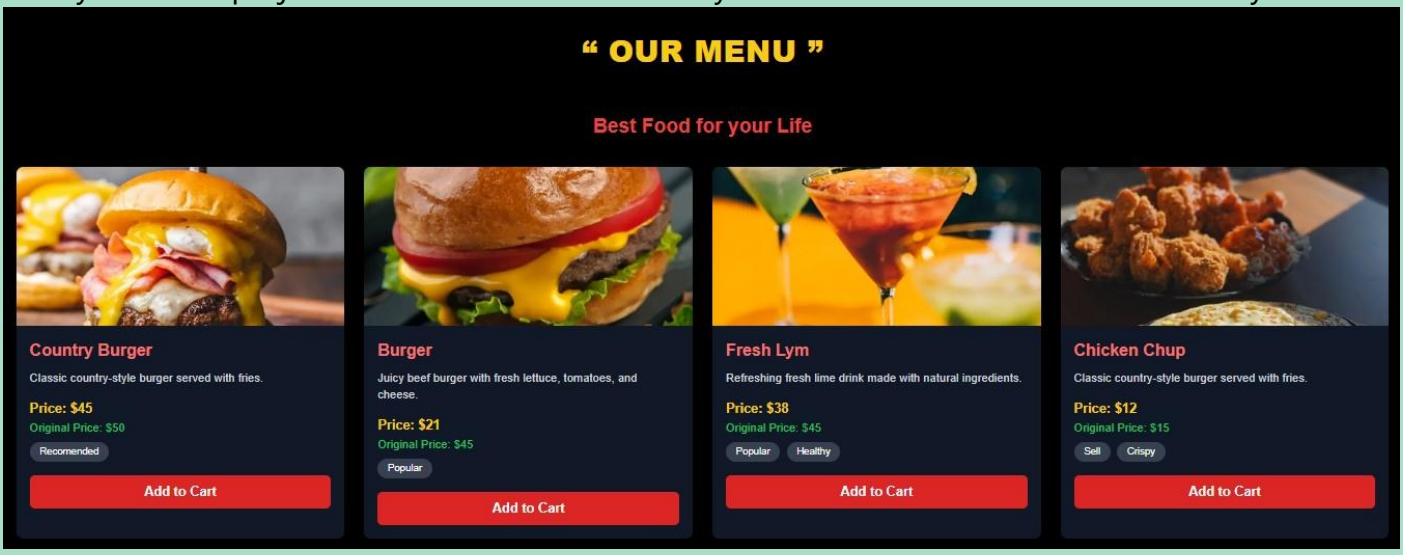
{/* Add to cart Functionality */}
<button
className="mt-4 w-full bg-red-600 text-white py-2 rounded-md hover:bg-red-700 transition-all font-
onClick={() => addToCart(food)}
>
Add to Cart
</button>

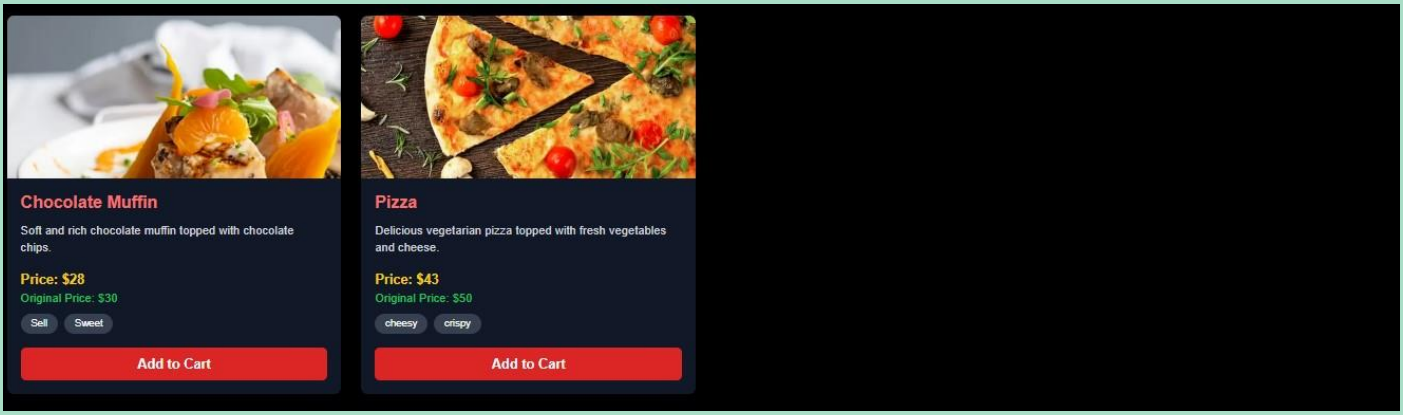




11th- Run the command “npm run dev”.

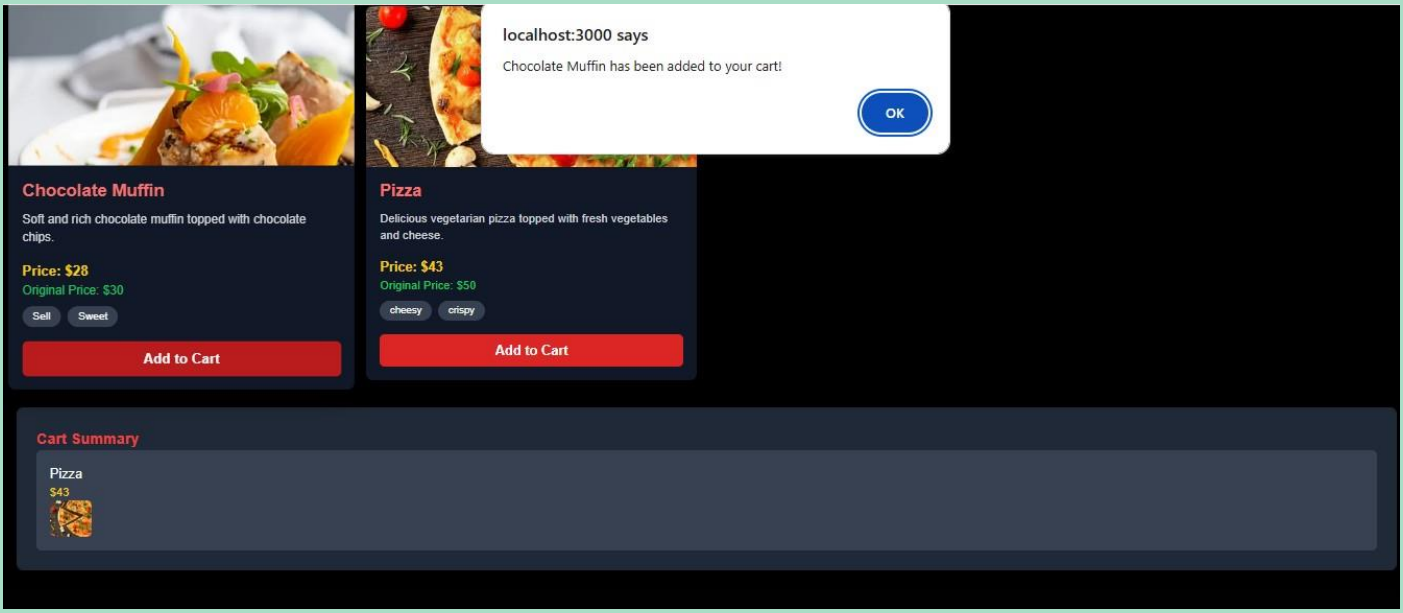
After running this command I have clicked on localhost: 3000 to view the migration of sanity data on my frontend project and I have founded that my all data has been fetched successfully.





12th- Add to Cart Summary.

On click of every Add to cart button of items, they will be starting to add in my cart summary.



SUMMARY.

The Hackathon Day-3 task was to Integrate of provided API and Data Migration on Frontend of Next.js project. Which I have done successfully with following short summary.

1- **Installation of Sanity Studio.**
2- **Generating the Token number and save it in .env.local file with the project ID.**
3- **Define schema type of Food and made script folder & file to integrate the API data in Sanity and also run the command after this "npm run import-data".**
4- **Checking the GROQ Query in sanity vision to migrate the data on frontend.**
5- **Made a Food folder in src/app route & fetch the data with the help of map method, useEstate & useEffect then run the command npm run dev for localhost: 3000.**
6- **Finally & Al-Hamdulillah My 3rd Day task has completed successfully and I have fetched the data on my Next.js project Frontend.**