

DAY-3

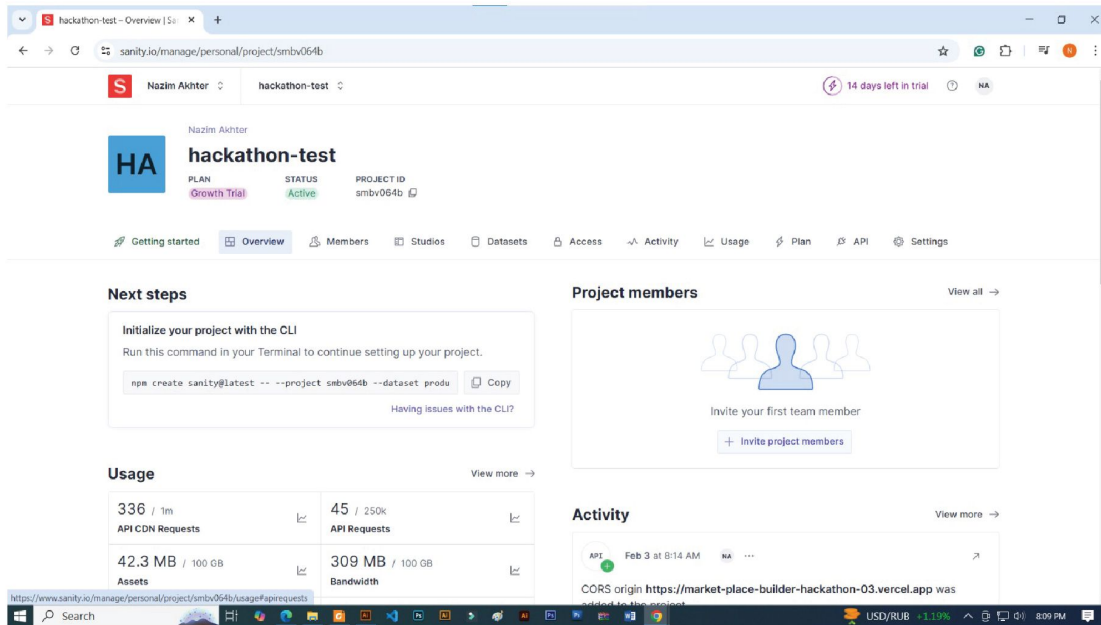
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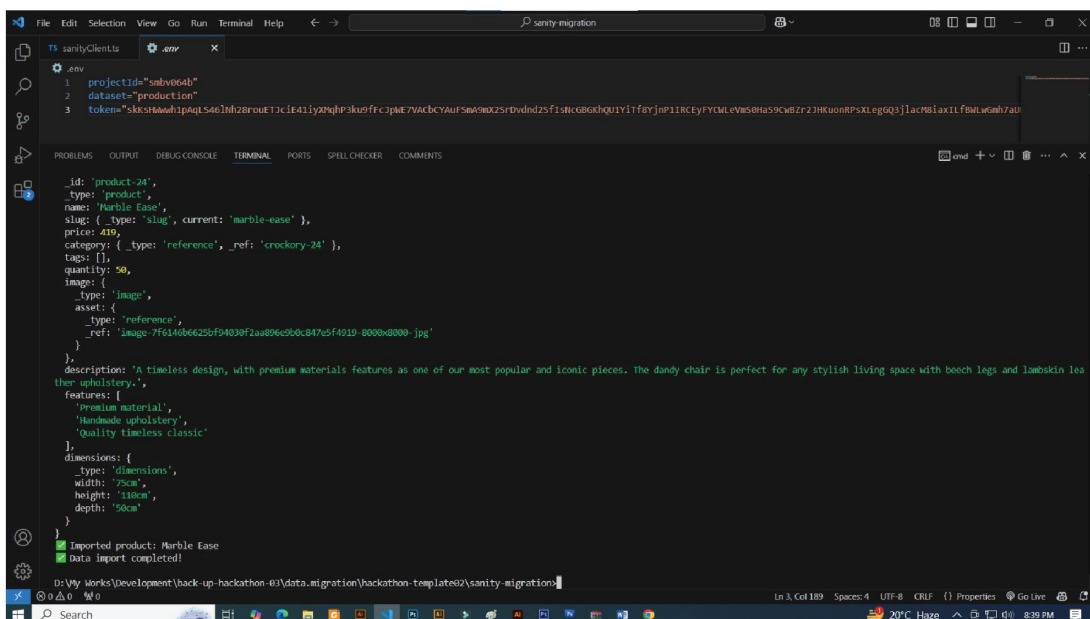
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Template No. 2

First of all I clone GitHub repository for migration data by giving **Sir Bilal Muhammad Khan** and then i set up new project in sanity



then I install npm node module dependencies to make environment variables by using projectId, dataset, and token and run command `node importData.js` and fetch data showing in terminal



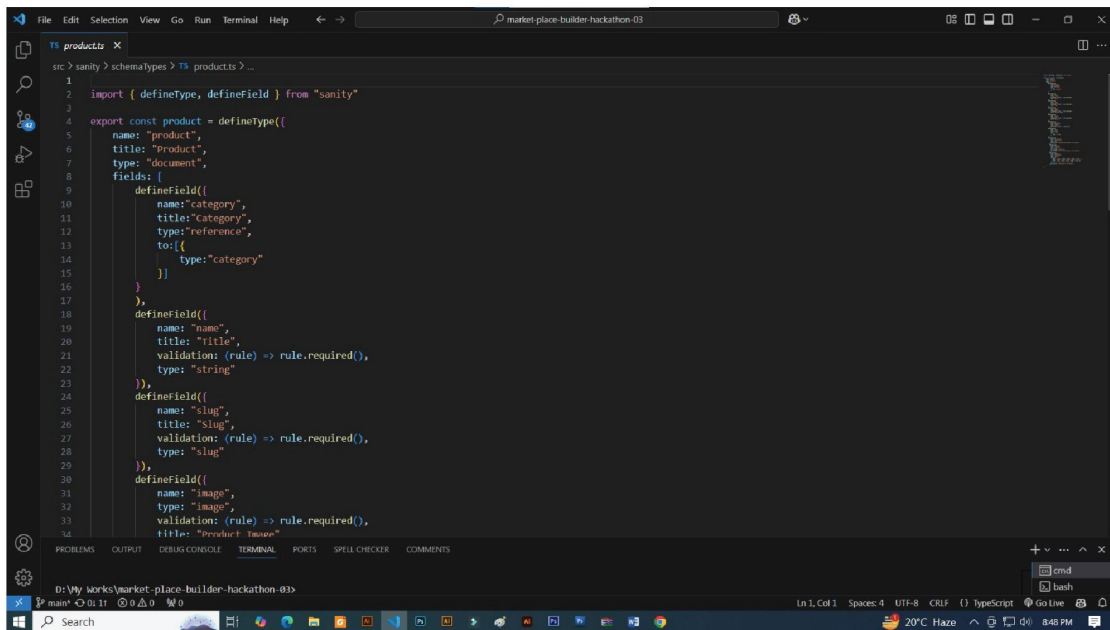
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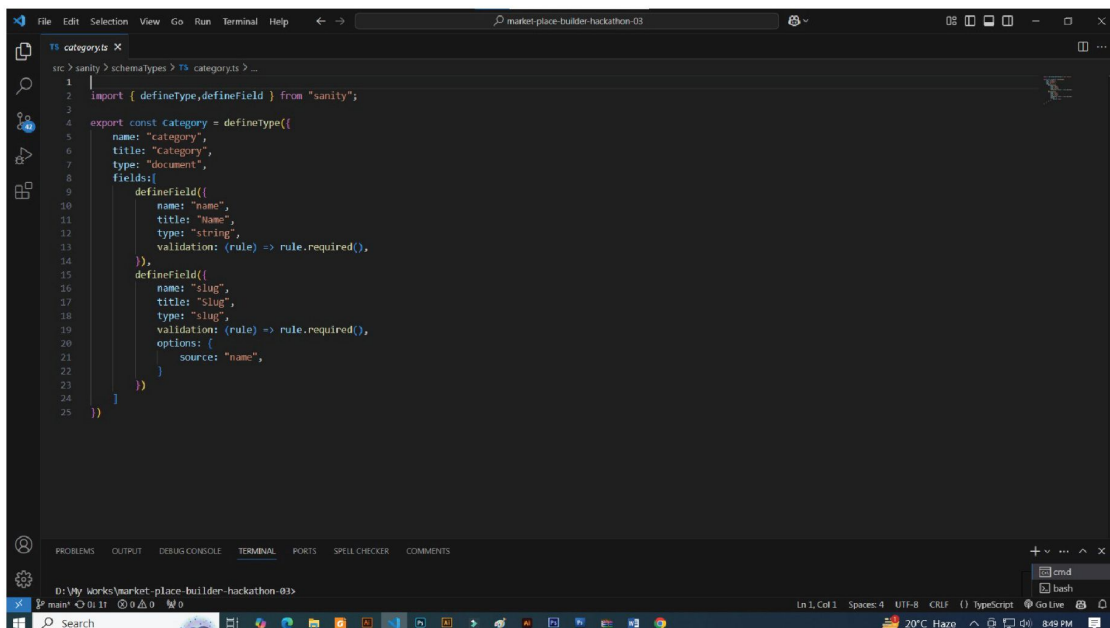
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Then I installed Sanity in my PROJECT setup environment Variable and created schema files Product and Category both Copy-paste from the given GitHub repository by **Sir Bilal Muhammad Khan**



```
1  import { defineType, defineField } from "sanity"
2
3
4  export const product = defineType({
5    name: "product",
6    title: "Product",
7    type: "document",
8    fields: [
9      defineField({
10       name: "category",
11       title: "Category",
12       type: "reference",
13       to: [{
14         type: "category"
15       }]
16     }),
17     defineField({
18       name: "name",
19       title: "title",
20       validation: (rule) => rule.required(),
21       type: "string"
22     }),
23     defineField({
24       name: "slug",
25       title: "slug",
26       validation: (rule) => rule.required(),
27       type: "slug"
28     }),
29     defineField({
30       name: "image",
31       type: "image",
32       validation: (rule) => rule.required(),
33       title: "Product Image"
34     })
35   ]
36 })
```



```
1  import { defineType, defineField } from "sanity";
2
3
4  export const category = defineType({
5    name: "category",
6    title: "category",
7    type: "document",
8    fields: [
9      defineField({
10       name: "name",
11       title: "Name",
12       type: "string",
13       validation: (rule) => rule.required(),
14     }),
15     defineField({
16       name: "slug",
17       title: "slug",
18       type: "slug",
19       validation: (rule) => rule.required(),
20       options: {
21         source: "name",
22       }
23     })
24   ]
25 })
```

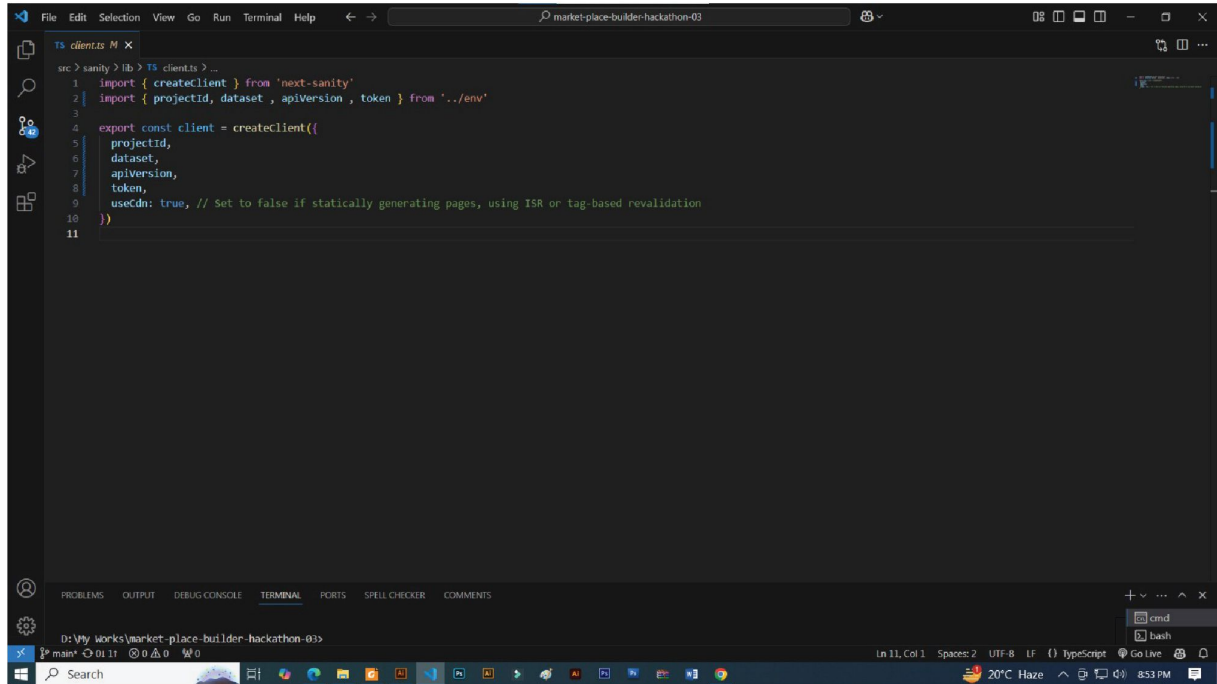
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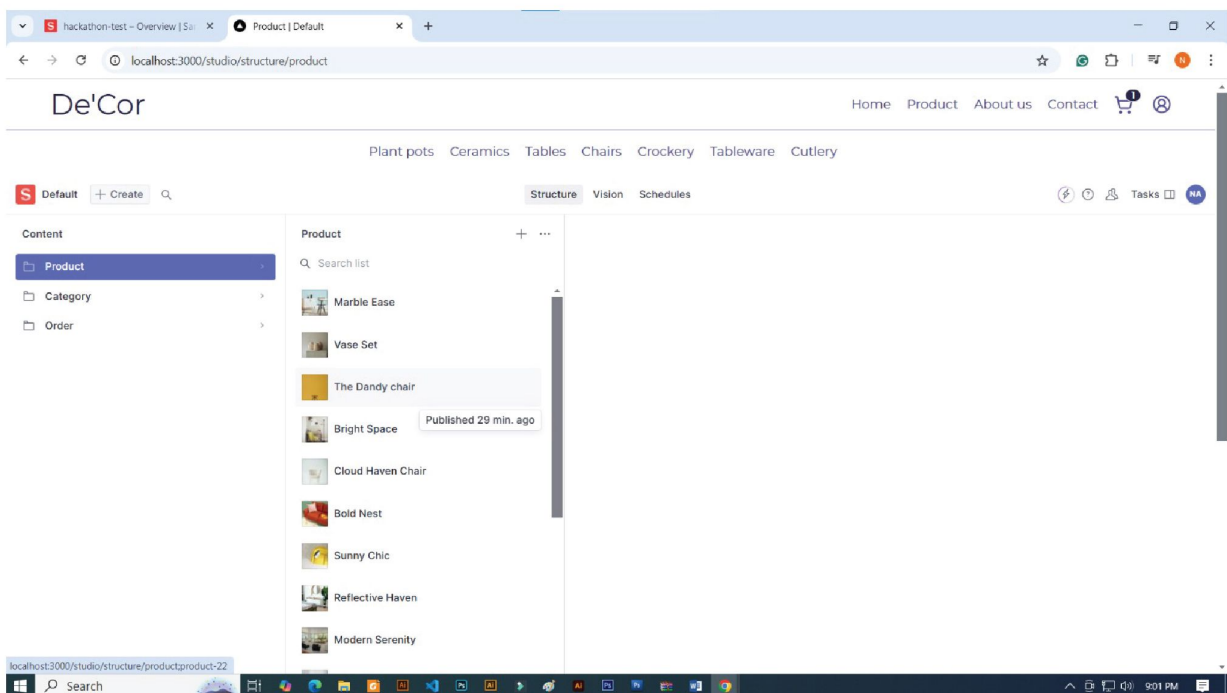
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Then I import environment variables in a client in sanity



```
src > sanity > lib > ts clients > ...
1 import { createClient } from 'next-sanity'
2 import { projectId, dataset, apiVersion, token } from '../env'
3
4 export const client = createClient({
5   projectId,
6   dataset,
7   apiVersion,
8   token,
9   useCdn: true, // Set to false if statically generating pages, using ISR or tag-based revalidation
10 })
11
```

and went to localhost:3000/studio and saw the product and Category shown in sanity studio



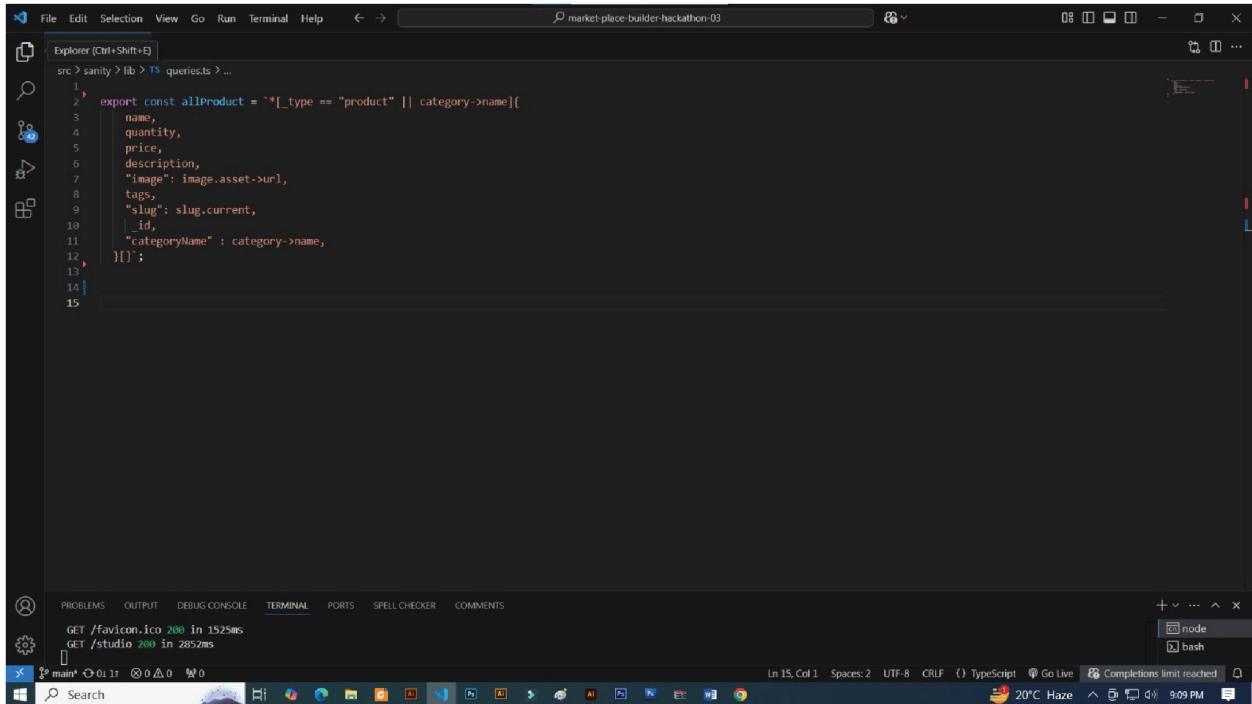
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I make a `querrie.ts` file in `sanity-->lib` and write a `query` for fetched product in UI and make a `types` folder in `SRC` and create file `productTypes.ts`

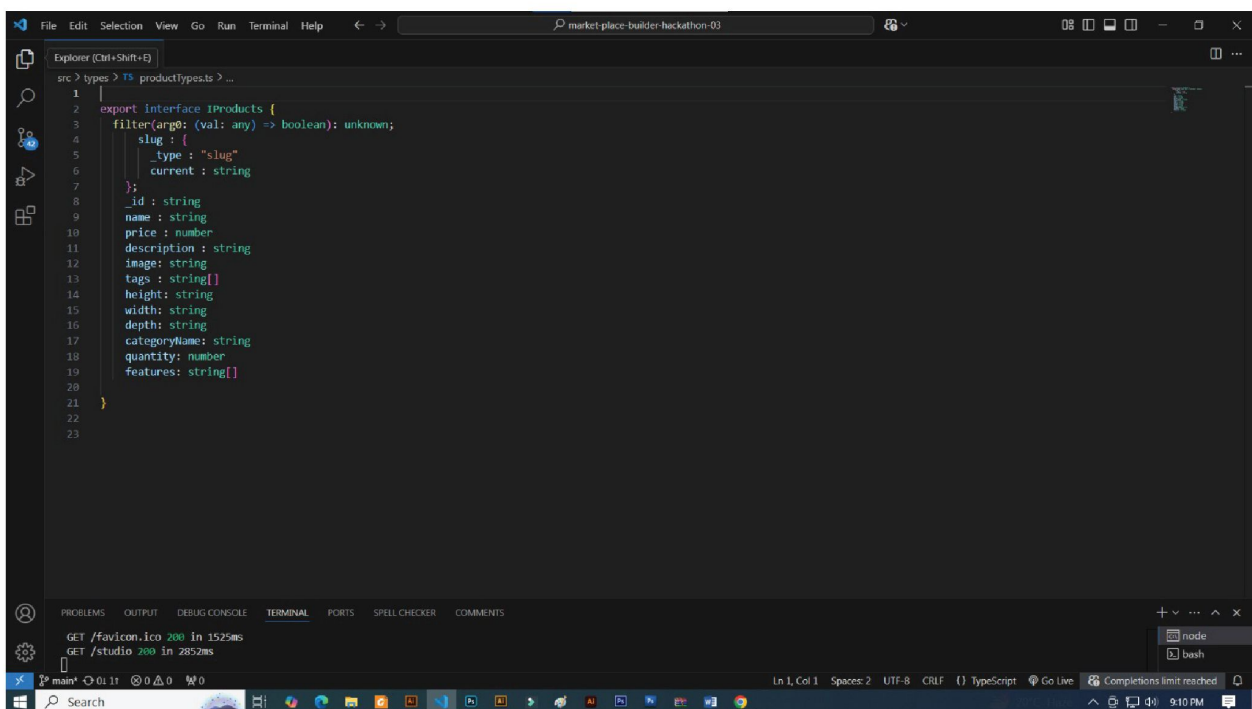


The screenshot shows a VS Code editor window with the file `queries.ts` open. The code defines a query to fetch all products from a Sanity database. The query is as follows:

```
1 export const allProduct = `*[_type == "product" || category->name]{
2   name,
3   quantity,
4   price,
5   description,
6   "image": image.asset->url,
7   tags,
8   "slug": slug.current,
9   id,
10  "categoryName" : category->name,
11 }[]`;
12
13
14
15
```

The bottom of the window shows the terminal with the following output:

```
GET /favicon.ico 200 in 1525ms
GET /studio 200 in 2852ms
```



The screenshot shows a VS Code editor window with the file `productTypes.ts` open. The code defines a TypeScript interface for a product. The interface is as follows:

```
1 export interface IProducts {
2   filter(arg0: (val: any) => boolean): unknown;
3   slug: {
4     _type: "slug"
5     current: string
6   };
7   id: string;
8   name: string;
9   price: number;
10  description: string;
11  image: string;
12  tags: string[];
13  height: string;
14  width: string;
15  depth: string;
16  categoryName: string;
17  quantity: number;
18  features: string[];
19 }
20
21
22
23
```

The bottom of the window shows the terminal with the following output:

```
GET /favicon.ico 200 in 1525ms
GET /studio 200 in 2852ms
```

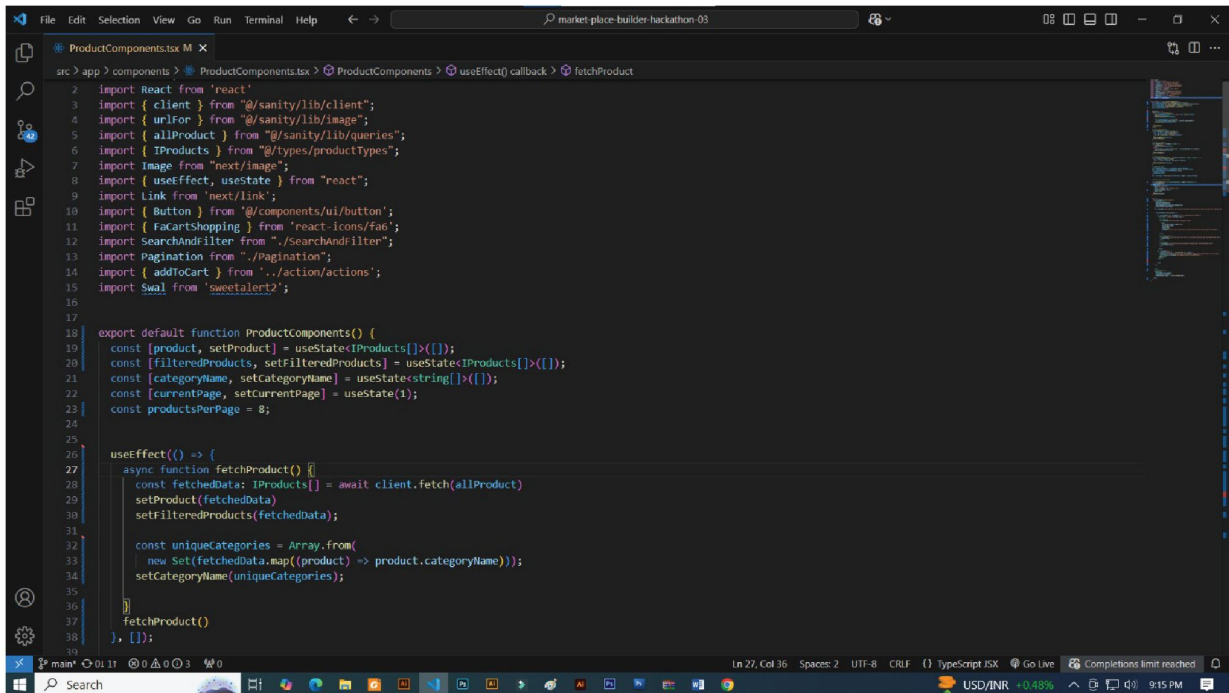
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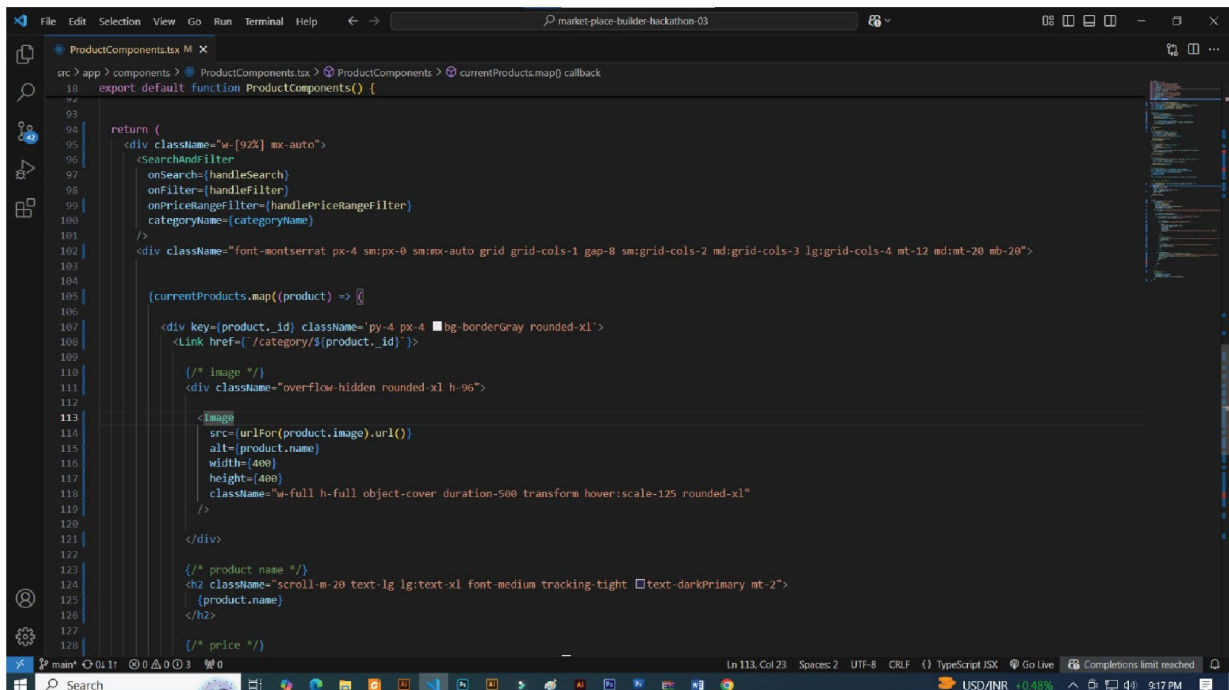
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I go to productComponent which is render in ProductListing Page and create a function by using useState and useEffect and apply map method



```
1 import React from 'react'
2 import { client } from '@sanity/lib/client';
3 import { urlFor } from '@sanity/lib/image';
4 import { allProduct } from '@sanity/lib/queries';
5 import { TProducts } from '@types/productTypes';
6 import image from 'next/image';
7 import { useEffect, useState } from 'react';
8 import Link from 'next/link';
9 import Button from '@components/ui/button';
10 import { FacartShopping } from 'react-icons/fas';
11 import SearchAndFilter from './SearchAndFilter';
12 import Pagination from './Pagination';
13 import { addToCart } from '../action/actions';
14 import Swal from 'sweetalert2';
15
16
17
18 export default function ProductComponents() {
19   const [product, setProduct] = useState<TProducts>(>({});
20   const [filteredProducts, setFilteredProducts] = useState<TProducts>(>({});
21   const [categoryName, setCategoryName] = useState<string>(>('');
22   const [currentPage, setCurrentPage] = useState(1);
23   const productsPerPage = 8;
24
25
26   useEffect(() => {
27     async function fetchProduct() {
28       const fetchedData: TProducts[] = await client.fetch(allProduct)
29       setProduct(fetchedData)
30       setFilteredProducts(fetchedData);
31
32       const uniqueCategories = Array.from(
33         new Set(fetchedData.map((product) => product.categoryName)));
34       setCategoryName(uniqueCategories);
35     }
36     fetchProduct()
37   }, []);
38 }
```



```
18 export default function ProductComponents() {
19   // ... (state and effects) ...
20
21   return (
22     <div className="w-[92%] mx-auto">
23       <SearchAndFilter
24         onSearch={handleSearch}
25         onFilter={handleFilter}
26         onPriceRangeFilter={handlePriceRangeFilter}
27         categoryName={categoryName}
28       />
29       <div className="font-montserrat px-4 sm:px-0 sm:mx-auto grid grid-cols-1 gap-8 sm:grid-cols-2 md:grid-cols-3 lg:grid-cols-4 mt-12 md:mt-20 mb-20">
30
31         {currentProducts.map((product) => (
32           <div key={product._id} className="py-4 px-4 bg-borderGray rounded-xl">
33             <Link href={`/category/${product._id}`}>
34
35               <div className="overflow-hidden rounded-xl h-96">
36                 <Image
37                   src={urlFor(product.image).url()}
38                   alt={product.name}
39                   width={400}
40                   height={400}
41                   className="w-full h-full object-cover duration-500 transform hover:scale-125 rounded-xl"
42                 />
43             </div>
44
45             <div>
46               <h2 className="scroll-m-20 text-lg lg:text-xl font-medium tracking-tight text-darkPrimary mt-2">
47                 {product.name}
48               </h2>
49
50               <div>
51                 <h3>
52                   {product.price}
53                 </h3>
54               </div>
55             </div>
56           </div>
57         ))}
58       </div>
59     </div>
60   );
61 }
```

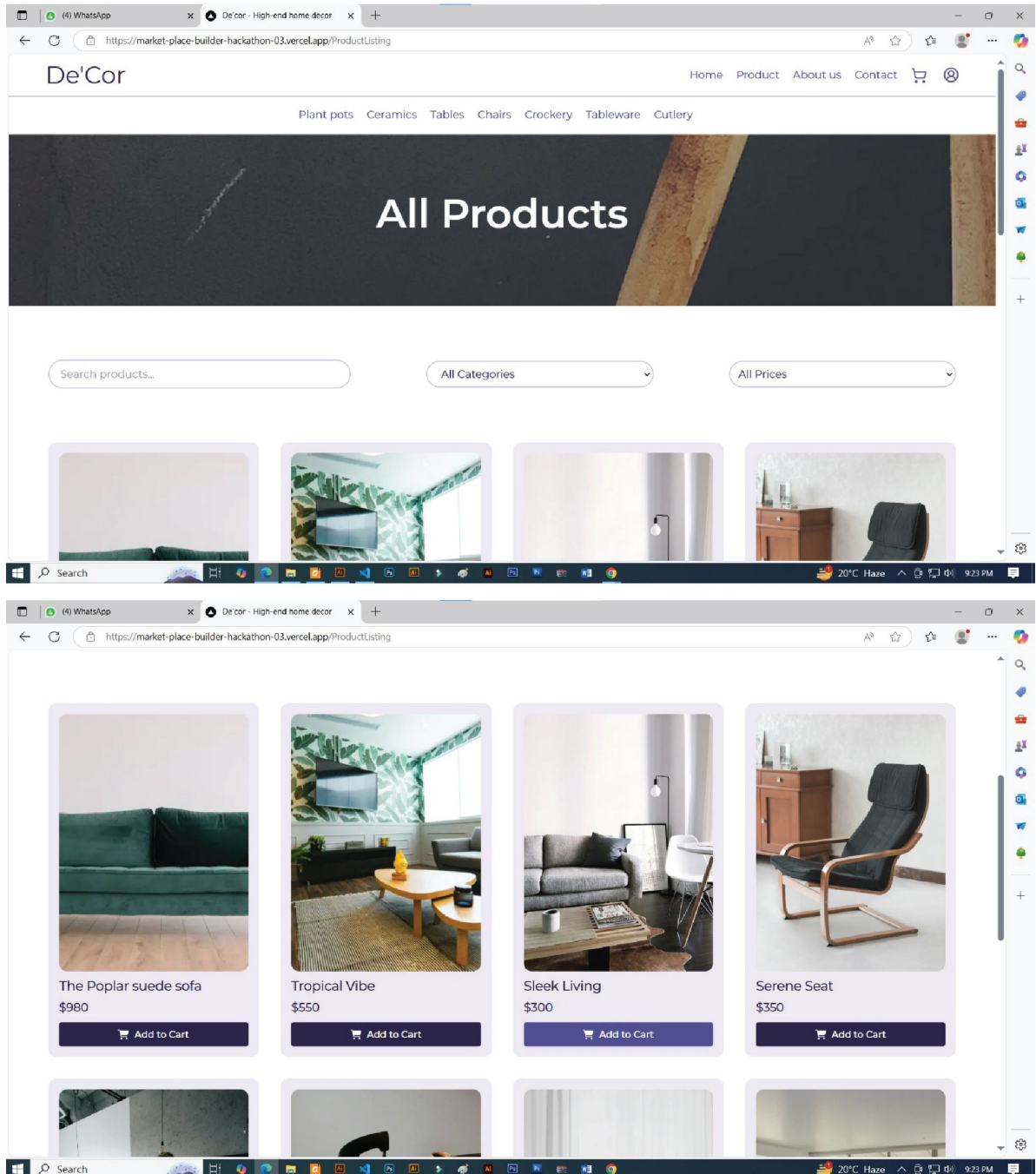

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Finally Show all the products in my UI



I also made the Category page dynamic i faced an issue with the category name being wrong in my sanity that fetches from API after a whole day I tried to get the product fetched by category but I failed then I applied Console.log and caught undefined one of the categories and renamed it and finally, I got fetched products by category name like plant Pots, ceramics, etc. In the end, I learned lots off