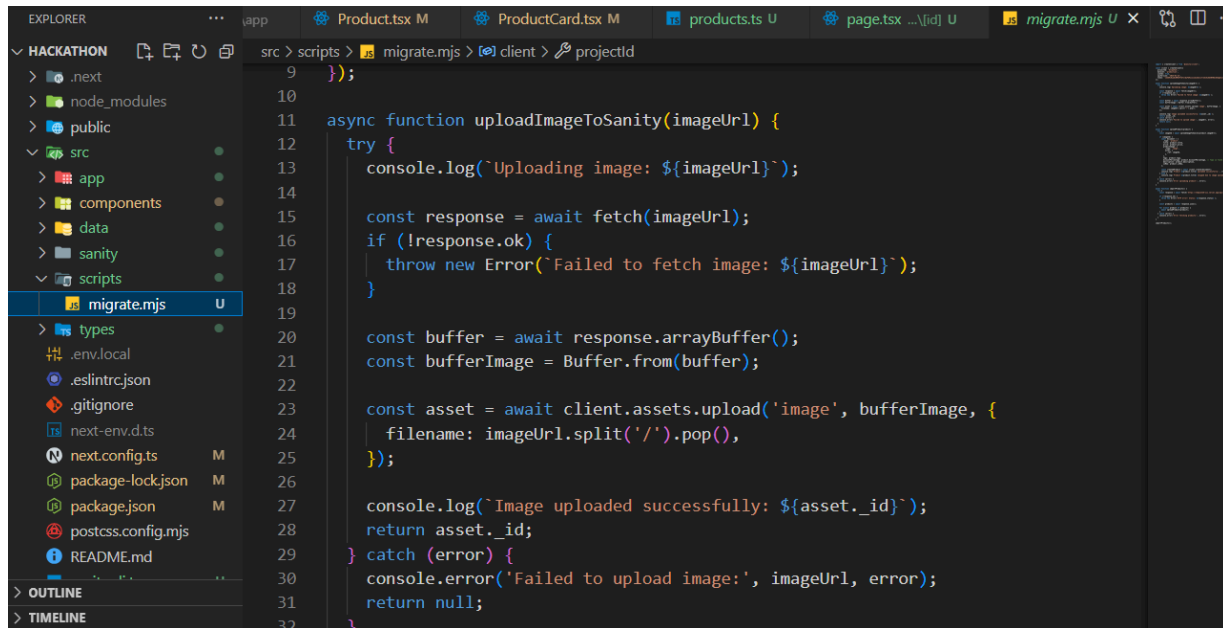


# API INTEGRATION AND DATA MIGRATION

## 1. Products API Integration:

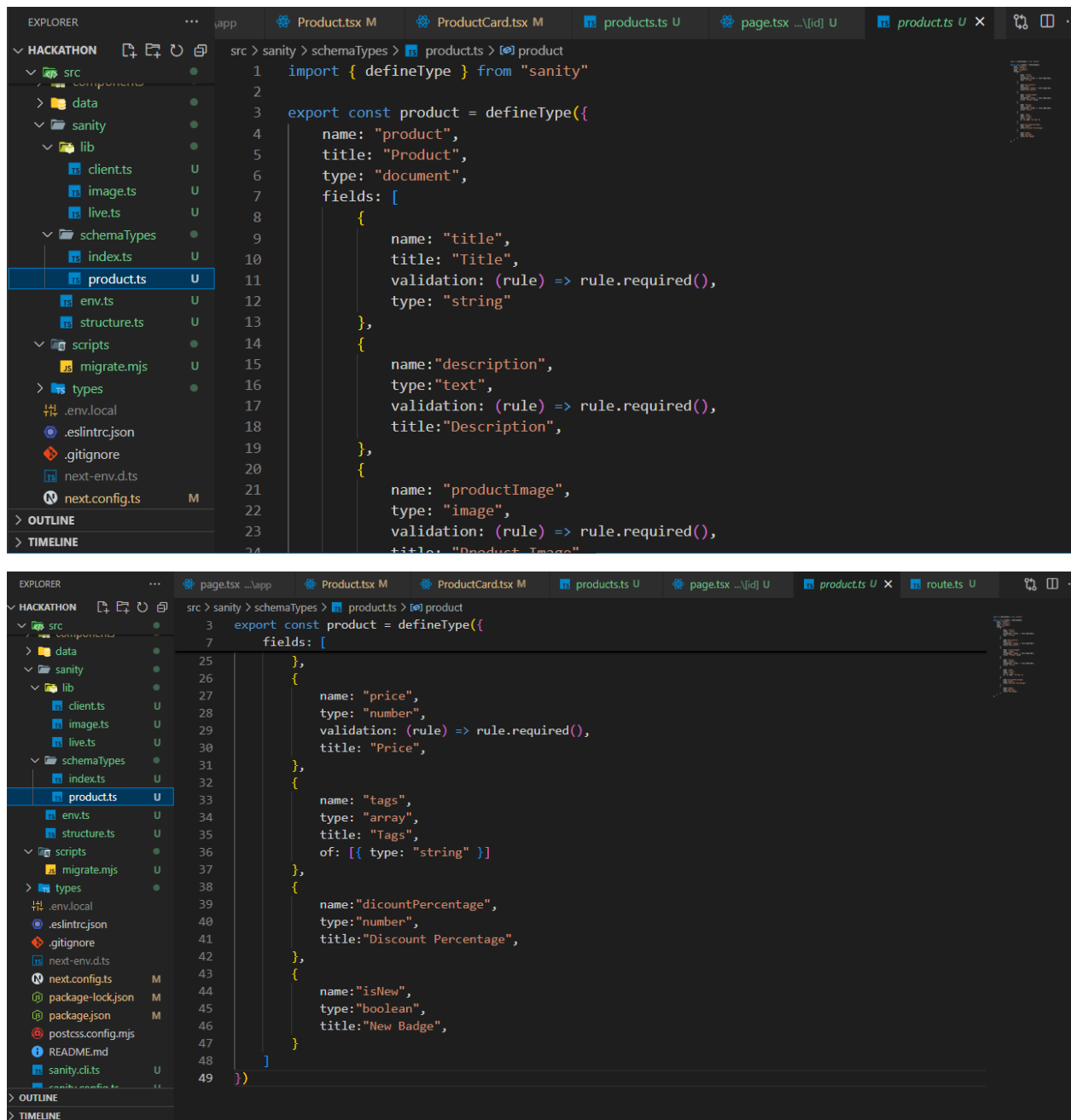
I have made an imigration file named migration.mjs and then fetch data from api and then stored it to sanity cms.



```
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.split('/').pop(),
25      });
26
27      console.log(`Image uploaded successfully: ${asset._id}`);
28      return asset._id;
29    } catch (error) {
30      console.error('Failed to upload image:', imageUrl, error);
31      return null;
32    }
33  }
```

## 2. Schema:

I have adjusted the new schema, and have made some changes in my products schema.



### 3.Api creation and data fetching:

Then , I have fetched all the products from my Sanity cms.

```
src > components > ui > Product.tsx > Product > data.map() callback
1  import React from 'react';
2  import ProductCard from '../shared/ProductCard';
3  import { productType } from '@types/products';
4
5  const Product = async () => {
6    try {
7      const res = await fetch('http://localhost:3000/api/products');
8      if (!res.ok) throw new Error('Failed to fetch products');
9
10     const data: productType[] = await res.json();
11     console.log(data);
12
13     return (
14       <div className="flex flex-col gap-[80px] mt-40 px-4 items-center">
15         <div className="flex flex-col items-center text-center">
16           <div className="text-[20px] font-semibold">Featured Products</div>
17           <div className="text-[24px] font-bold">BESTSELLER PRODUCTS</div>
18           <div className="text-[#737373] text-[14px] font-medium">
19             Products trying to solve the conflict between
20           </div>
21         </div>
22
23         <div className="grid md:grid-cols-4 items-center gap-[30px]">
24           {data.map((item: productType) => (
25             <ProductCard
26               id={item._id}
27               key={item._id}
28             </ProductCard>
29           ))}
```

## 4. Individually showing products data through Dynamic route:

Then, i have made a dynamic route to show individual product from the api.

```
src > app > [id] > page.tsx > ProductPage
1  import { client } from '@sanity/lib/client';
2  import { urlFor } from '@sanity/lib/image';
3  import { productType } from '@types/products';
4  import React from 'react';
5
6  const ProductPage = async ({ params }: { params: { id: string } }) => {
7    // Define the GROQ query to fetch products
8    const query = `*[_type == "product"] {
9      _id,
10     title,
11     description,
12     productImage {
13       asset->{
14         _id,
15         url
16       }
17     },
18     price1,
19     price2
20   }`;
21
22    // Fetch data from Sanity
23    const data = await client.fetch(query);
24
25    // Find the product matching the ID from params
26    const foundProduct: productType = data.find((item: { _id: string }) => item._id === params.id);
27
28    // Handle case where product is not found
29    if (!foundProduct) {
```

```
EXPLORER
...
page.tsx U X

HACKATHON
> .next
> node_modules
> public
> src
  > app
    > [id]
      > page.tsx U
  > about
  > api
  > blog
  > contact
  > pricing
  > products
  > shop
  > studio
  > faviconico
  > globals.css
  > layout.tsx
  > page.tsx
  > components
  > data
  > sanity
  > scripts
  > types
  > .env.local
  > .eslintrc.json
> OUTLINE
> TIMELINE

src > app > [id] > page.tsx > ProductPage
6 const ProductPage = async ({ params }: { params: { id: string } }) => {
7   return (
8     <div className="flex justify-center mt-9">
9       <h1 className="text-2xl font-bold text-red-500">Product not found</h1>
10     </div>
11   );
12 }
13
14 // Render the product details
15 return (
16   <div className="flex justify-center mt-9">
17     <div className="md:h-[700px] w-full justify-center flex gap-8">
18       <div className="flex justify-center mt-[50px]">
19         <img
20           src={foundProduct.productImage.asset.url}
21           alt={foundProduct.title || 'Product Image'}
22           className="md:h-[500px] md:w-[500px] h-[400px] w-[400px]"
23         />
24       </div>
25       <div className="flex flex-col items-center">
26         <div className="text-[30px] font-bold">{foundProduct.title}</div>
27         <div className="text-zinc-500 w-[700px] mt-7">{foundProduct.description}</div>
28         <div className="flex gap-9">
29           <div className="text-zinc-400 font-bold">Price: ${foundProduct.price}</div>
30           {foundProduct.price && (
31             <div className="text-green-950 font-bold">Discounted Price: $price-{foundProduct.discountPer
32           )}
33         </div>
34       </div>
35     </div>
36   </div>
37 )
38 }
```