

DAY 3 - API INTEGRATION AND DATA MIGRATION – General-e-commerce

1. Understanding the Provided API

- I have reviewed the API documentation for the assigned template and verified its key endpoints. The API includes an endpoint for product listings (/products), which aligns correctly with Template 1. The API structure and functionality match the requirements of the template.

2. Adjustments in the Schema:

- The default schemas were modified to fit the migrated data and ensure they match the API structure.

```
sanity > schemaTypes > TS products.ts > [⌘] default
1  import { defineType } from "sanity"
2
3  export default defineType({
4    name: 'products',
5    title: 'Products',
6    type: 'document',
7    fields: [
8      {
9        name: 'name',
10       title: 'Name',
11       type: 'string',
12     },
13     {
14       name: 'price',
15       title: 'Price',
16       type: 'number',
17     },
18     {
19       name: 'description',
20       title: 'Description',
21       type: 'text',
22     },
23     {
24       name: 'image',
25       title: 'Image',
26       type: 'image',
27     },
28     {
29       name: "category",
30       title: "Category",
31       type: 'string',
32       options: {
33         list: [
34           {title: 'T-Shirt', value: 'tshirt'},
35           {title: 'Short', value: 'short'},
36           {title: 'Jeans', value: 'jeans'},
37           {title: 'Hoddie', value: 'hoodie'},
38           {title: 'Shirt', value: 'shirt'},
39         ]
40       }
41     },
42   ],
43 })
```

3. Data Migration Implementation Steps

1. Define the Product Schema:

- Created a `products.ts` file in the `sanityTypes` folder.
- Pasted the schema into the file.
- Updated `sanityTypes/index.ts` to include the `products` type.

```
1 import { type SchemaTypeDefinition } from 'sanity'
2 import products from './products'
3
4 export const schema: { types: SchemaTypeDefinition[] } = {
5   types: [products],
6 }
7
```

2. Set Up the Import Script:

- Created `scripts/importSanityData.mjs` in the root directory.
- Pasted the provided script code into the file.

```
1 import { createClient } from '@sanity/client';
2 import fetch from 'node-fetch';
3
4 const client = createClient({
5   projectId: "mridm5fk",
6   dataset: "production",
7   useCdn: true,
8   apiVersion: '2025-01-13',
9   token: "skt9tTLUA9FIpXb8TwyfTgsbkYIDRxWs8TK6n1r6bbjgNp26dVKTCUIZ51T44wiKzC3S8G7kqYgaxABhkLOXGXY3Rd4R7qbkQ6d77";
10 });
11
12 async function uploadImageToSanity(imageUrl) {
13   try {
14     console.log(`Uploading image: ${imageUrl}`);
15
16     const response = await fetch(imageUrl);
17     if (!response.ok) {
18       throw new Error(`Failed to fetch image: ${imageUrl}`);
19     }
20
21     const buffer = await response.arrayBuffer();
22     const bufferImage = Buffer.from(buffer);
23
24     const asset = await client.assets.upload('image', bufferImage, {
25       filename: imageUrl.split('/').pop(),
26     });
27
28     console.log(`Image uploaded successfully: ${asset._id}`);
29     return asset._id;
30   } catch (error) {
```

3. Configure Package Script:

- o Updated `package.json` by adding the following script under "scripts":

```
json
CopyEdit
"import-data": "node scripts/importSanityData.mjs"
```

```
"scripts": {
  "dev": "next dev",
  "build": "next build",
  "start": "next start",
  "lint": "next lint",
  "import-data": "node scripts/importSanityData.mjs"
},
```

4. Execute the Migration:

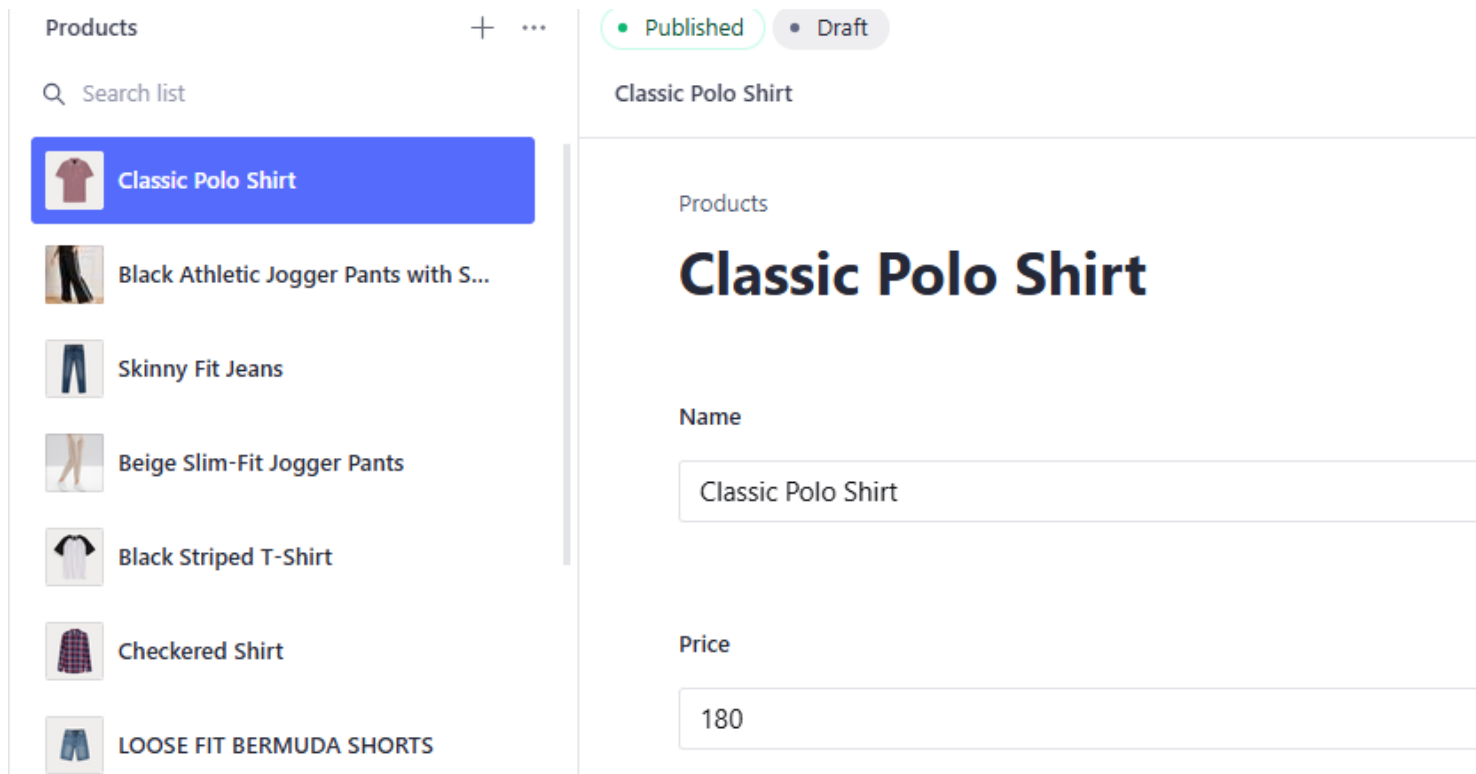
- o Ran the script to fetch data from the API and import it into Sanity.

```
PS E:\GIAIC\e-commerce-hackathone-sanity> npm run import-data
```

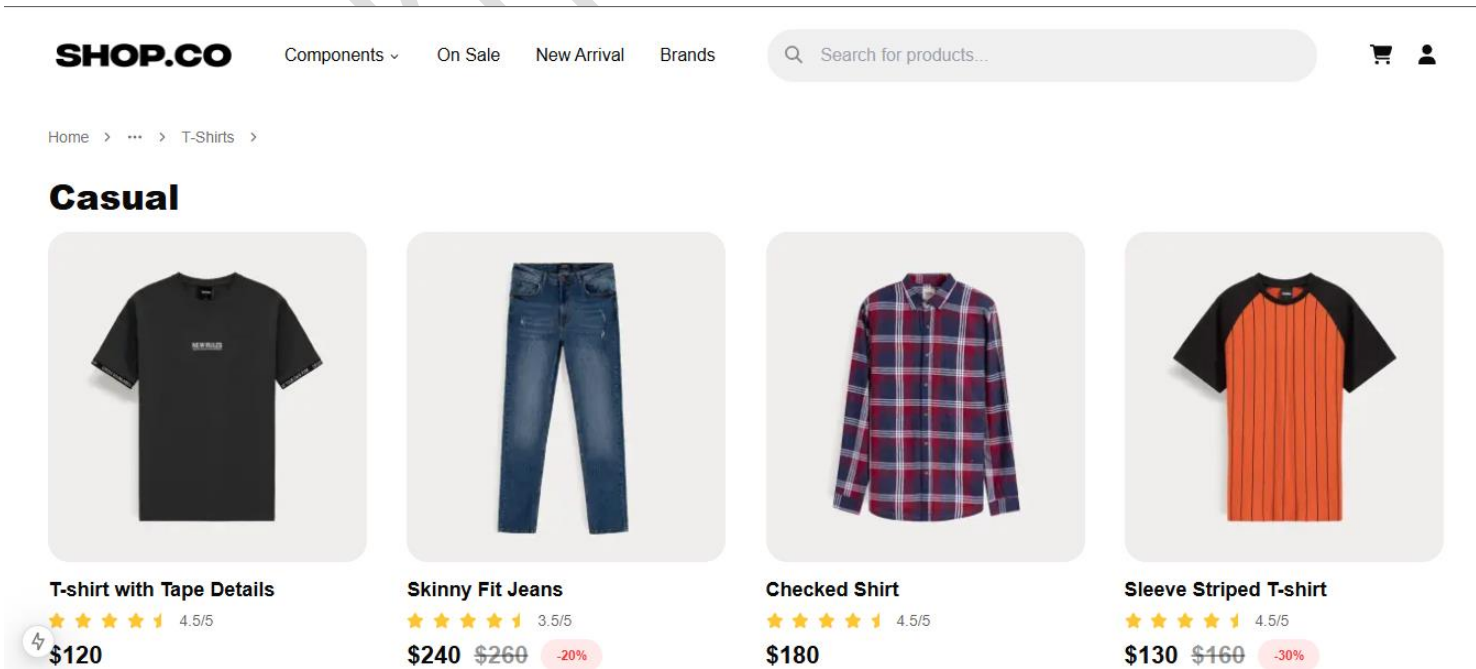
```
> e-commerce-hackathone@0.1.0 import-data
> node scripts/importSanityData.mjs
```

```
Uploading image: https://cdn.sanity.io/images/7xt4qcah/production/4e2ed6a9eaa6e1413843e53f3113ccfd2104c301-278x2
Image uploaded successfully: image-4e2ed6a9eaa6e1413843e53f3113ccfd2104c301-278x296-png
Product Casual Green Bomber Jacket uploaded successfully: {
  _createdAt: '2025-02-05T12:56:34Z',
  _id: 'DGUNMUyIGLcZXFd2i1trPn',
  _rev: 'DGUNMUyIGLcZXFd2i1trMj',
  _type: 'products',
  _updatedAt: '2025-02-05T12:56:34Z',
  colors: [ 'Blue', 'Red', 'Black', 'Yellow' ],
  description: "This stylish green bomber jacket offers a sleek and modern twist on a classic design. Made from
t features snap buttons and ribbed cuffs, giving it a sporty yet refined look. The minimalist style makes it per
t-shirts or hoodies. Whether you're out with friends or just lounging, this jacket provides a laid-back yet fash
color adds a subtle, earthy tone that pairs well with a variety of outfits, making it a versatile addition to yo
  discountPercent: 20,
  image: {
    _type: 'image',
    asset: {
      ref: 'image-4e2ed6a9eaa6e1413843e53f3113ccfd2104c301-278x296-png'
```

- Finally data successfully imported in the sanity.



- Fetching Data from Sanity and display on front-end



```

30 > const product: IProduct[] = [ ...
172 ];
173
174 export default function Product_detail() {
175   const [count, setCount] = useState(1);
176   const [productData, setProductData] = useState<IProduct | null>(null);
177   const params = useParams();
178   const id = params?.id ? Number(params.id) : null;
179
180   // Fetch product details from Sanity
181   useEffect(() => {
182     const fetchData = async () => {
183       try {
184         const data = await client.fetch(`*[_type == "products"]{
185           _id,
186           name,
187           description,
188           price,
189           sizes,
190           colors,
191           image,
192           discountPercent,
193           isNew
194         }`);
195         console.log("Sanity Data:", data);
196       } catch (error) {
197         console.error("Error fetching data:", error);
198       }
199     };
200     fetchData();
201   }, []);

```

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