

HACKATHON

DAY 03

The Goal of Day 03 is to integrate Mock API in your project and then migrate the data into sanity CMS.

Here , we have to understand how to setup the structure of mock API and then setup the struture of our product schema where we migrate the data of Mock API.

Key Section to Point Out :

API Understanding:

First of all, we need to understand which data we need to develop our marketplace . The Data is API , we need to create it and then migrate it in sanity but why need to create it . We can simply add the data through sanity studio, yes we can but we have to one or two data we bundles , so for that we need an external services to develop that API and then integrate into project and after that migrate into sanity.

Resource data

Edit/replace data for **productlist** resource. Data must be an array and a valid JSON.

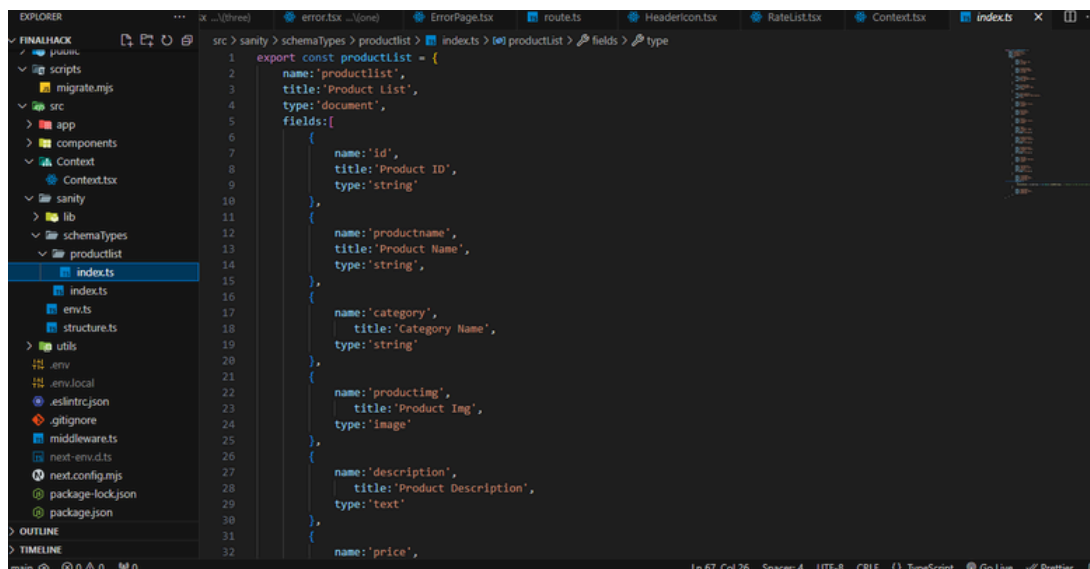
```
[
  {
    "createdAt": "2025-01-23T13:24:35.375Z",
    "productname": "Brown Jacket",
    "productimage":
      "https://res.cloudinary.com/de3hsuhgv/image/upload/v1737718336/hackhathon/xuttbtc eur6r06ob4shn.png",
    "description": "Met minim Mollie non desert Alamo est sit cliquey dolor do met sent. RELIT official consequent door ENIM RELIT Mollie. Excitation venial consequent sent nostrum met.",
    "price": 15,
    "discount": 3,
    "category": "Jacket",
    "stock": 50,
    "rating": 0,
    "reviewlist": [],
    "tags": [
      "jacket",
      "product"
    ]
  }
],
```

Close

Update

Adjustment the Schema :

After that setup the API, we need to adjust our schema according to API structure . We adjust that schema with properties like productname, productimage, productprice. So we need to install sanity into our marketplace and follow the instruction to work with sanity.



Migrate API Into Sanity:

Next step is to migrate the API into Sanity. To Perform that operation we need to follow some steps. We need to set our MockAPI and sanity keys into .env.local file and also on .env to migrate the data into sanity. Here we are using axios to fetch the mock API and using some sanity method to migrate the API into Sanity Studio. Now, we need a file to do the migration process and the file is migrate.mjs and wrap the file into scripts folder in our project.

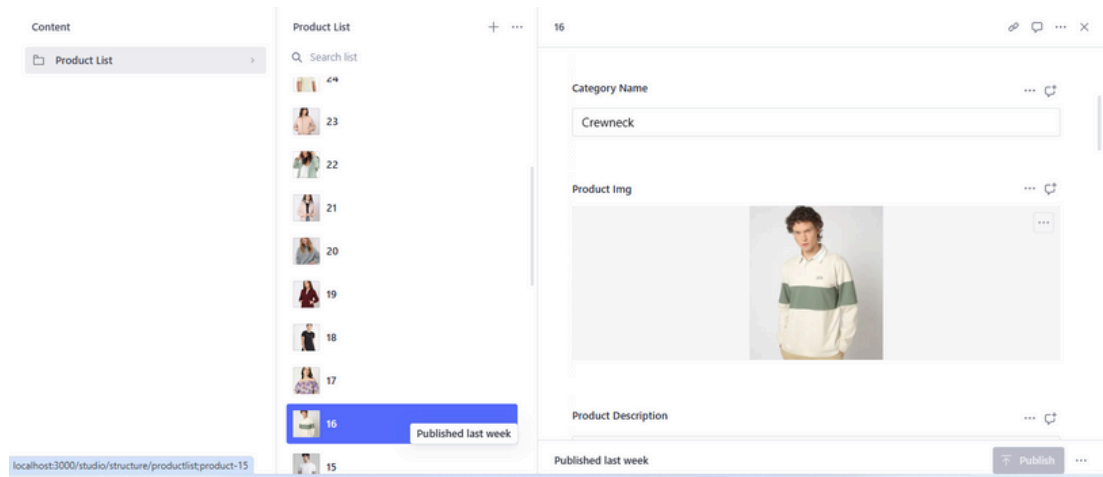
```
43 const migrateDataToSanity = async () => {
44   try {
45     // Upload image to Sanity and get its ID
46     const imageId = await uploadImageToSanity(item.productimage);
47
48     // Prepare Sanity document
49     const sanityDocument = {
50       _type: "productlist",
51       id: item.id,
52       productname: item.productname,
53       category: item.category,
54       producting: imageId ? { _type: "image", asset: { _ref: imageId } } : null,
55       description: item.description,
56       price: item.price,
57       discount: item.discount,
58       stock: item.stock,
59       tags: item.tags,
60       productcolors: item.productcolors,
61       productsizes: item.productsizes,
62       rating: item.rating,
63       reviewlist: item.reviewlist,
64       createdAt: item.createdAt || new Date().toISOString(),
65       updatedAt: item.updatedAt || new Date().toISOString(),
66     };
67
68     // Create or update the document in Sanity
69     const result = await client.createOrReplace({
70       _id: `product-${item.id}`, // Unique document ID (e.g., 'product-5')
71       ...sanityDocument,
72     });
73
74     console.log(`Migrated product: ${result.id}`);
75   } catch (error) {
76     console.error('Error migrating product:', error);
77   }
78 }
```

Command to run migrate file is :

npm run migrate

Migration Completed:

After Mock API has migrated to sanity studio , so the studio is showing all the product and it's detail that I had written on Mock API, so the the migration process is done successfully.



Integrate in Nextjs:

The API data is successfully migrate in sanity studio , so the next we have to do is to integrate the Sanity data through query using GROQ. We have integrate it with the help of `client.fetch()` method of sanity . Here , I have integrated that .

```
export async function GET(req: NextRequest) : Promise<NextResponse<any>> {
  try {
    // Parse query parameters for pagination
    const url = new URL(req.url);
    const itemPage : number = parseInt(url.searchParams.get("page") || "1", 10); // Default to page 1
    const itemLimit : number = parseInt(url.searchParams.get("limit") || "30", 10); // Default to 30 items per page
    const offset : number = (itemPage - 1) * itemLimit; // Calculate the starting point

    // Fetch paginated products from Sanity
    const clothBuck : any = await client.fetch(
      `*[_type == "productlist"] | order(id asc) [${offset}...${offset + itemLimit}]{
        productname,
        "productimg": productimg.asset->url,
        category,
        description,
        stock,
        discount,
        id,
        rating,
        price,
        productsizes,
        productcolors,
        tags,
        createdAt,
        updatedAt,
      }`
    );

    // Create a response and set CORS headers
    const response : NextResponse<any> = NextResponse.json(clothBuck, { status: 200 });
  }
}
```

Challenges Facing:

I had Faced some challenges because , I didn't know how to migrate the data in sanity . I was thinking the migration process is short it's not a short process that's I thinked , Faced challenges on handle image and then it worked sucessfully