# Day3: API Integration and Data Migration for Nike Products Marketplace

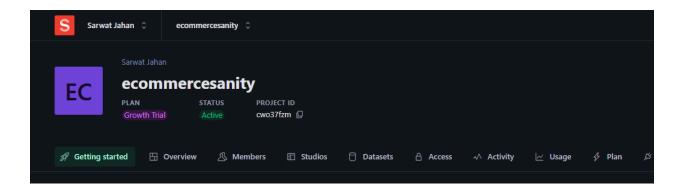
This document details the activities undertaken on the third day of the Nike Products Marketplace hackathon.

It includes custom migration, integrating data from Sanity, creating schemas, and presenting data using GROQ queries within a Next.js application.

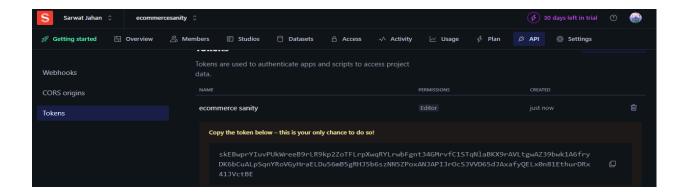
Each Segment is accompanied by annotated code images with comprehensive explanations of their functions.

### API Integration process:

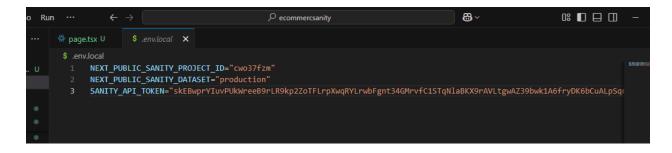
- 1. First, created a project in my Sanity account ,named 'ecommercesanity'.
- 2.Installed Sanity in my Next.js Project folder.



3. Then, I created a Token.



4. Token created in sanity, then pasted in my project.



5. Import-Data is added in the package.json file.

```
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                                                                                \nearrow ecommercsanity
                               🤁 page.tsx M
                                                                          {} package.json M X
EXPLORER
                                                JS data-migration.mjs U
                               {} package.json > {} scripts > ••• import-data
OPEN EDITORS
   page.tsx src\app
                                        "name": "ecommercsanity",
   JS data-migration.mjs sc... U
                                        "version": "0.1.0",
× {} package.json M
                                        "private": true,
ECOMMERCSANITY [1 日 ひ 日
                                        "type": "module",
                                         Debug
                                         "scripts": {
 # globals.css
                                          "dev": "next dev",
 layout.tsx
                                          "build": "next build",
                                          "start": "next start",
 page.tsx

✓ sanity

                                          "import-data": "node script/importData.mjs"

✓ lib

  TS client.ts
                                         "dependencies": {
  TS image.ts
                                           "@sanity/client": "^6.25.0",
                                14
  TS live.ts
                                           "@sanity/icons": "^3.5.7",
                                           "@sanity/image-url": "^1.1.0",
 schemaTypes
                                           "@sanity/vision": "^3.69.0",
  TS index.ts
                                           "axios": "^1.7.9",
  TS product.ts
                                           "next": "14.2.14",
 TS env.ts
```

6. In SchemaTypes, a file named product.ts is created which contains Product Schema ,provided by the teacher.

```
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∠ ecommercsanity

                                                                          $ .env.local
                                                                                               TS index.ts U

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                                                            export const productSchema = {
         TS index.ts src\sanity\sch... U
                                                               name: 'product',
title: 'Product',
type: 'document',
fields: [

✓ ECOMMERCSANITY

                                                                        name: 'productName',
title: 'Product Name',
type: 'string',

✓ src

     v app
       ★ favicon.ico
                                                                       name: 'category',
title: 'Category',
type: 'string',
       # globals.css
       layout.tsx
       page.tsx
                                                                       name: 'price',
title: 'Price',
type: 'number',
        TS client.ts
        TS image.ts
        TS live.ts
                                                                        name: 'inventory',
title: 'Inventory',
type: 'number',
       TS structure.ts
                                                                       name: 'colors',
title: 'Colors',
type: 'array',
of: [{ type: 'string' }],
    $ .env.local
    eslintrc.json
    gitignore
    JS next.config.mjs
```

7. Created a data-migration.mjs file in scripts folder and add function to integrate API in sanity project.

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Scripts \ JS data-migration.mis \ D X S .env.local

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X JS data-migration.mis \ Fom '@sanity/client';

import { createClient } from '@sanity/client';

import axios from 'axios';

import dotenv from 'dotenv';

import dotenv from 'dotenv';

import path from 'path';

filenameCommercsanity

next

next

node_modules

const _filename = fileURLTOPath(import.meta.url);

const _filename = path.dirname(_filename);

dotenv.config({ path: path.resolve(_dirname, '../.env.local') });

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    V ECOMMERCSANITY
                                       projectia: bi14d1cd",
dataset: process.env.NEXT_PUBLIC_SANITY_DATASET,

vuseCdn: false,
token: "skcutRH09sNP9t4Yo3RO4cLru0NLHJMvUHQpaNGvBlluGM9WELUsAl2SbLHVPHjq8WAKXeWLyoCduEUkrUnWw8YoWDpbpRHmG9EKbmJWl
apiVersion: '2021-08-31'
       ∨ app
         > fonts
         > studio
         favicon.ico
         # globals.css
         layout.tsx
         page.tsx
                                                                async function uploadImageToSanity(imageUrl) {
    try {
                                                                             console.log(`Uploading image: ${imageUrl}`);
           TS client.ts
                                                                              const response = await axios.get(imageUrl, { responseType: 'arraybuffer' });
const buffer = Buffer.from(response.data);
const asset = await client.assets.upload('image', buffer, {
   filename: imageUrl.split('/').pop()
                                                                                });
console.log(`Image uploaded successfully: ${asset._id}`);
           TS index.ts
                                                                                  console.error('Failed to upload image:', imageUrl, error);
```

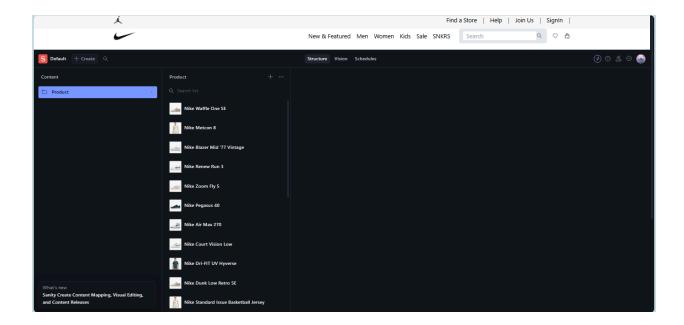
8.After all the important steps for migrating API data in my projects, this command ran in terminal npm run import -data.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

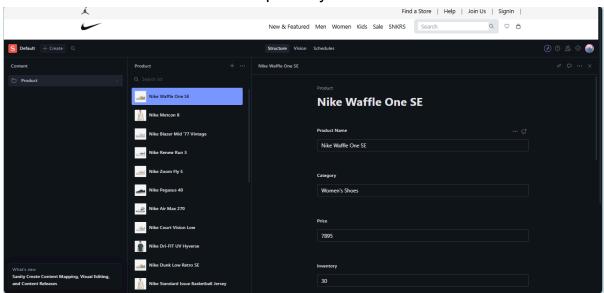
> node scripts/importSanityData.mjs

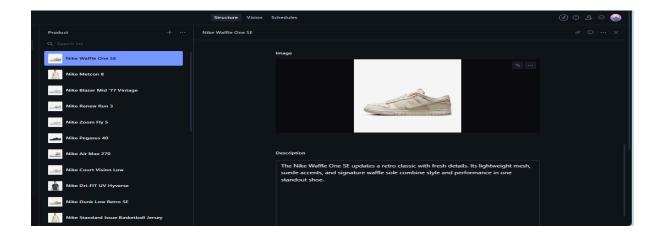
migrating data please wait...
products ==>> [
{
    productName: "Nike Air Force 1 Mid '07",
    category: "Men's Shoes",
    price: 10795,
    inventory: 20,
    colors: ['White'],
    status: 'Just In',
    image: 'https://template-03-api.vercel.app/products/1.png',
    description: "The Nike Air Force 1 Mid '07 delivers timeless style with premium leather and mid-cut design. Perfect for everyday wear, it provides exceptional comfort and durability. The iconic Air-Sole cushioning adds responsive support for long-lasting performance."
```

9. All the Data through API was integrated in Sanity Studio.

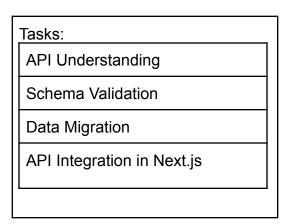


Each Product can see in Studio separately.





#### Self-Validation Checklist:



## Submission Preparation:

- Data Fetched and Displayed successfully in Sanity CMS.
- With manually entering data, frontend validation.
- Screenshots are added in file to show my work.

#### Conclusion:

This report documents the manual data migration process and its integration with Sanity CMS for Nike products, ensuring an optimal user experience for local dropshipping.