

Hackathon Day 3: API INTEGRATION AND DATA MIGRATION:

Template 8:

Provided by Sir Hamza Syed

Overview:

This document provides detail report on API integration and data migration into sanity. This will help to build functional e-commerce site.

Api Integration:

(Understand the API Requirements)

- Review the API documentation provided by the service.
- Identify the **endpoints**, request methods (GET, POST, etc.), and the data format (JSON, XML, etc.).
- <https://giaic-hackathon-template-08.vercel.app/api/products>
- <https://giaic-hackathon-template-08.vercel.app/api/categories>
- Understand the endpoints.

Data Migration:

First of all, setup your nextjs project by running the command
`npx create-next-app@latest`

If you already have a project then skip the first of creating project, then install sanity into your project. Here's the setup guide:

[learn-nextjs/step09_headless_cms/sanity/step00_sanity_setup/README.md](https://github.com/panaverse/learn-nextjs/tree/main/step09_headless_cms/sanity/step00_sanity_setup/README.md)
at main · panaverse/learn-nextjs

After Setup the sanity, go to src/sanity/schemaTypes
create a file product.ts here and add the following code or schema [giaic-hackathon-template-08/src/sanity/schemaTypes/products.ts](https://github.com/Hamzah-syed/giaic-hackathon-template-08/blob/master/src/sanity/schemaTypes/products.ts) at master · Hamzah-syed/giaic-hackathon-template-08

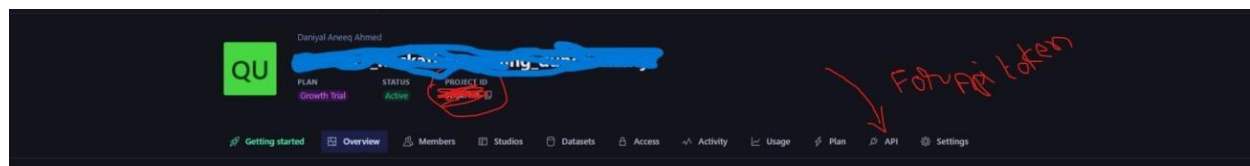
Then create another file named categories.ts and add the following code into your file

[giaic-hackathon-template-08/src/sanity/schemaTypes/categories.ts](https://github.com/Hamzah-syed/giaic-hackathon-template-08/blob/master/src/sanity/schemaTypes/categories.ts) at master · Hamzah-syed/giaic-hackathon-template-08

Import both the schemas into index.ts
/src/sanity/schemaTypes/index.ts

Then setup your environment variables, create a file named .env at the root directory and add your sanity project id, dataset and api token

```
NEXT_PUBLIC_SANITY_PROJECT_ID="add your project id"  
NEXT_PUBLIC_SANITY_DATASET="production"  
NEXT_PUBLIC_SANITY_AUTH_TOKEN="Add your api token here"
```



Data Migration Script

Now create a folder named scripts and create a file migrate.mjs and add the following code to the file

[giaic-hackathon-template-08/scripts/migrate.mjs at master · Hamzah-syed/giaic-hackathon-template-08](#)

Then add the follwoing script into your package.json

```
"migrate": "node scripts/migrate.mjs"
```

Now run this command in your terminal `npm install dotenv`

By executing the command `npm run migrate`, the data will be successfully migrated to your Sanity project. Now, retrieve the data and display it accordingly.