# Marketplace Builder Hackathon Day 3

Api Integration And Data Migration In Sanity

Fetching Data From External Api:

To integrate an external API with Sanity and migrate data, I followed this process which involves several steps. First, set up your Sanity schema by defining the structure of the data you want to store, such as products. For this, you create a schema file (e.g., products.ts) specifying the fields like title, price, description, badge, inventory, tags, and image.

Next, create a migration script (e.g., migrate.mjs) that fetches data from the external API and formats it according to your schema before inserting it into Sanity. Use the Sanity client to connect to your dataset and perform mutations (data creation). Ensure the script handles the mapping of API fields to your Sanity schema fields.

After writing the script, update your package.json file to include a custom script command to execute the migration script (e.g., "migrate": "node scripts/migrate.mjs"). Install the necessary packages like the Sanity client and fetch library to enable API communication and data handling.

Finally, run the migration script using the custom command in your terminal (e.g., npm run migrate). This will fetch data from the external API and populate your Sanity dataset with the mapped data. Make sure your API responses align with your schema fields to avoid errors during the migration process.

Below is the code of migration.mjs

```
async function uploadImageToSanity(imageUrl) {

try {

// Fetch the image from the provided URL

const response = await fetch(imageUrl);

if (Iresponse.ok) throw new Erron('Failed to fetch image: ${imageUrl}');

// Convert the image to a buffer (binary format)

const buffer = await response.arrayBuffer();

// Upload the image to Sanity and get its asset ID

const uploadedAsset = await tragetClient.assets.upload("image", Buffer.from(buffer), {
    filename: imageUrl.split("/").pop(), // Use the file name from the URL

});

return uploadedAsset._id; // Return the asset ID

catch (erron) {
    console.eron("Erron uploading image:", error.message);
    return null; // Return null if the upload fails

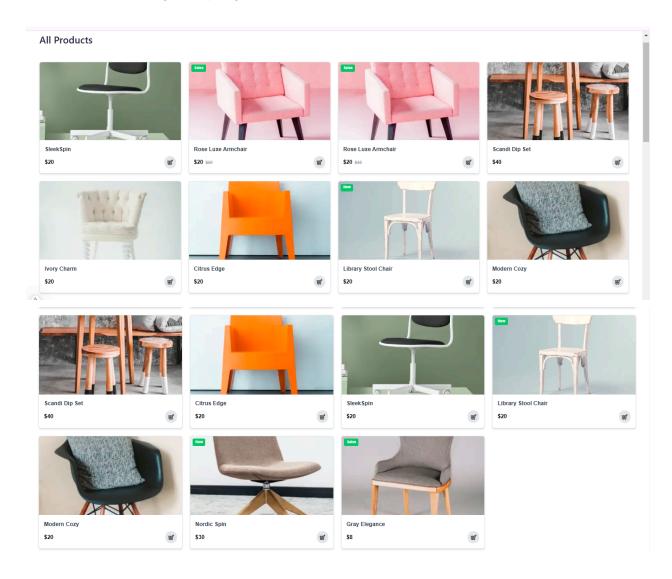
}

// Main function to migrateData() {
    console.log("Starting data migration...");

try {

// Fetch products from the REST API
    const productsResponse = await fetch("${BASE_URL}/api/products");
    if (!productsResponse = await fetch("${BASE_URL}/api/products");
    if (!productsResponse = await fetch("${BASE_URL}/api/products");
    const productsResponse = await productsResponse.json(); // Parse response to 350N
```

## Data Succesfully Displayed



## Api Endpoint:

I use this api endpoint provided by sir hamza and make a little bit change in it according to my schema

#### • Endpoint:

https://giaic-hackathon-template-08.vercel.app/api/
products

#### Schema Structure:

```
## By agasts evapoproduct to the products of the state of
```

```
{
    name: "badge",
    title: "Badge",
    type: "string",
},
{
    name: "image",
    title: "Product Image",
    type: "image",
},
{
    name: "inventory",
    title: "Inventory Management",
    type: "number",
},
],
},
],
},
```