# MARKETPLACE E-COMMERCE

### Introduction:

This documentation will guide you through the setup and implementation of a Sanity schema, a migration script for transferring data to another Sanity account, and overall project setup.

### 1. Install Nextjs project:

- .Create your nextJs project bt using this command.
- . Npx create-next-app@14.2.20

### 2. Sanity Installation:

. Install sanity in your nextJs project

### 3. Sanity Schema.

- 1: After the installation Navigate to your schema folder:
- . If you have a src folder, go to /src/sanity/schemaTypes.
- . Otherwise, go to /sanity/schemaTypes.
- 2: Create two new files and add the following code:
- 1: Products.ts
  - . / src / sanity / schema types / products.ts

```
import { defineType } from "sanity";
```

```
name: "title",
type: "string",
type: "number",
type: "number",
type: "string",
name: "image",
type: "image",
type: "reference",
to: [{ type: "categories" }],
type: "text",
type: "number",
```

```
type: "array",
  of: [{ type: "string" }],
  options: {
    list: [
        { title: "Featured", value: "featured" },
        {
            title: "Follow products and discounts on Instagram",
            value: "instagram",
        },
        { title: "Gallery", value: "gallery" },
        ],
    },
},
```

### 2. categories.ts:

/ src / sanity / schema types / categories.ts

import { defineType } from "sanity";

#### 3. importing schemas in your index.ts

/ src / sanity / schema types / index.ts

```
import { type SchemaTypeDefinition } from 'sanity'
```

```
import { productSchema } from './products'
import { categorySchema } from './category'

export const schema: { types: SchemaTypeDefinition[] } = {
   types: [productSchema, categorySchema],
}
```

### 4. Data migration script:

- 1. Set up your environment variables:
  - . Create a .env file in the root of your project.
  - . Create .env file and add the following variables:

```
NEXT_PUBLIC_SANITY_PROJECT_ID=" "
NEXT_PUBLIC_SANITY_DATASET=" "
NEXT_PUBLIC_SANITY_AUTH_TOKEN=" "
```

- . Create migrate.js inside of the script folder
- . and add the following code

```
// Import environment variables from .env.local
```

```
import "dotenv/config";

// Import the Sanity client to interact with the Sanity backend
import { createClient } from "@sanity/client";

// Load required environment variables
const {
    NEXT_PUBLIC_SANITY_PROJECT_ID, // Sanity project ID
    NEXT_PUBLIC_SANITY_DATASET, // Sanity dataset (e.g., "production")
    NEXT_PUBLIC_SANITY_AUTH_TOKEN, // Sanity API token
    BASE_URL = "https://giaic-hackathon-template-08.vercel.app", // API
base URL for products and categories
```

```
= process.env;
if (!NEXT PUBLIC SANITY PROJECT ID || !NEXT PUBLIC SANITY AUTH TOKEN) {
 console.error("Missing required environment variables. Please check
your .env.local file.");
 process.exit(1); // Stop execution if variables are missing
dataset
const targetClient = createClient({
 projectId, // Your Sanity project ID
 dataset, // Default to "production" if not set
 useCdn: false, // Disable CDN for real-time updates
 apiVersion: "2023-01-01", // Sanity API version
});
async function uploadImageToSanity(imageUrl) {
   const response = await fetch(imageUrl);
${imageUrl}`);
   const buffer = await response.arrayBuffer();
    const uploadedAsset = await targetClient.assets.upload("image",
Buffer.from(buffer), {
     filename: imageUrl.split("/").pop(), // Use the file name from
   });
 } catch (error) {
   console.error("Error uploading image:", error.message);
```

```
async function migrateData() {
 console.log("Starting data migration...");
fetch(`${BASE URL}/api/categories`);
categories.");
   const categoriesData = await categoriesResponse.json(); // Parse
   const productsResponse = await fetch(`${BASE URL}/api/products`);
products.");
   const productsData = await productsResponse.json(); // Parse
     console.log(`Migrating category: ${category.title}`);
     const imageId = await uploadImageToSanity(category.imageUrl); //
        type: "categories",
       image: imageId ? { _type: "image", asset: { _ref: imageId } } :
      const result = await targetClient.createOrReplace(newCategory);
      categoryIdMap[category. id] = result. id; // Store the new
```

```
console.log(`Migrated category: ${category.title} (ID:
${result. id}) `);
     console.log(`Migrating product: ${product.title}`);
     const imageId = await uploadImageToSanity(product.imageUrl); //
     const newProduct = {
       type: "products",
       priceWithoutDiscount: product.priceWithoutDiscount,
       badge: product.badge,
       image: imageId ? { _type: "image", asset: { _ref: imageId } } :
undefined, // Add image if uploaded
       category: {
         type: "reference",
         ref: categoryIdMap[product.category. id], // Use the
       description: product.description,
       inventory: product.inventory,
       tags: product.tags,
     const result = await targetClient.create(newProduct);
      console.log(`Migrated product: ${product.title} (ID:
   console.log("Data migration completed successfully!");
 } catch (error) {
   console.error("Error during migration:", error.message);
   process.exit(1); // Stop execution if an error occurs
```

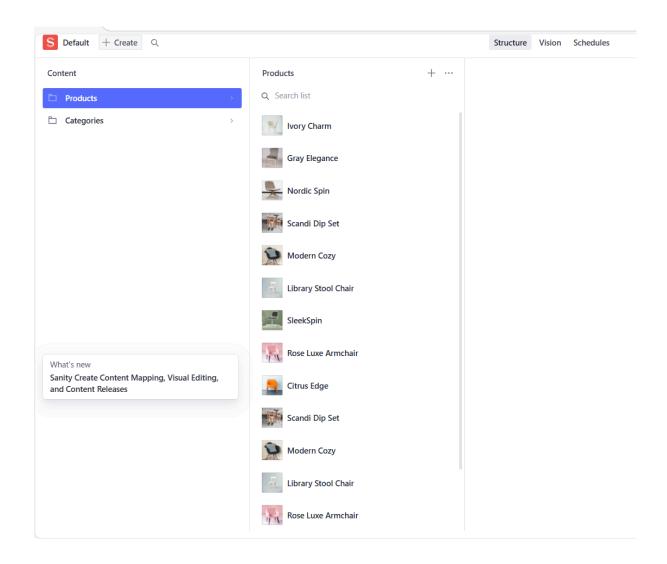
```
migrateData();
```

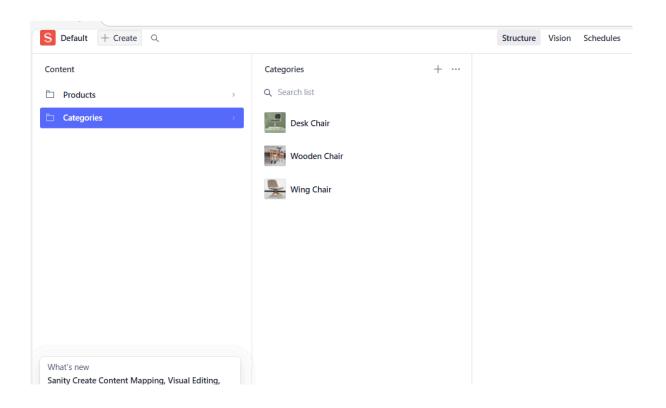
. Open `package.json` file and add the following code inside of scripts: "migrate": "node scripts/migrate.mjs"

```
"scripts": {
    "dev": "next dev --turbopack",
    "build": "next build",
    "start": "next start",
    "lint": "next lint",
    "migrate": "node scripts/migrate.mjs"
},
```

- . Install the following package before running the script
  - a.npm install dotenv
  - b. Now run the command npm run migrate
  - c. This will insert the data from the rest api to your sanity studio.

## Sanity-studio:





### . UI-UX:

. now ui-ux look like this.

#### **All Products**

