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.

NEXTJS PROJECT INSTALLATION:

Run the following command: npx create-next-app@14.2.5

SANITY INSTALLATION:

After the installation of nextjs, Run the following command to install sanity in your nextjs project:

npm create sanity@latest

SANITY SCHEMA:

After the installation Navigate to your schema folder:

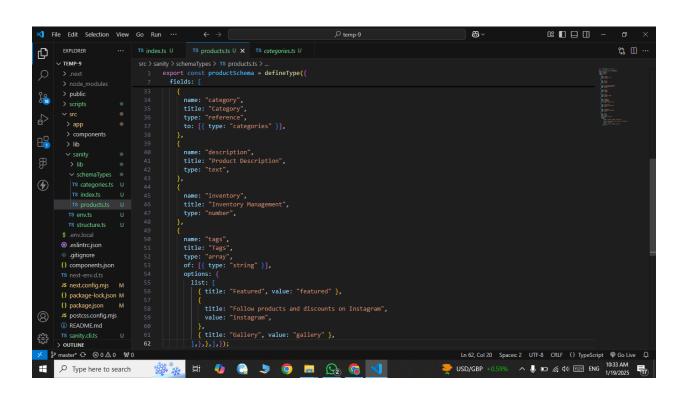
- o If you have a src folder, go to /src/sanity/schemaTypes.
- Otherwise, go to <u>/sanity/schemaTypes</u>.

Create two new files products.ts and categories.ts and add the following code:

```
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                                                                                                                                                                               83
Ð
                                        src > sanity > schemaTypes > TS products.ts > ...
1  import { defineType } from "sanity";

√ TEMP-9

                                                  export const productSchema = defineType({
  name: "products",
  tttle: "Products",
  type: "document",
  fields: [
          > public
                                                     {
  name: "title",
  title: "Product Title",
  type: "string",
<del>L</del>
            TS categories.ts U
TS index.ts U
TS products.ts U
                                                          name: "price",
title: "Price",
type: "number",
            TS structure.ts U
                                                          title: "Price without Discount",
name: "priceWithoutDiscount",
type: "number",
         eslintrc.json
          gitignore
                                                          name: "badge",
title: "Badge",
type: "string",
         {} package-lock.json M
         {} package.json M
                                                          name: "image",
title: "Product Image",
type: "image",
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TS sanity.cli.ts
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Type here to search
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```



```
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     > TEMP-9 [1 P7 0 6] src > sanity > schemaTypes > TS categories.ts > ...

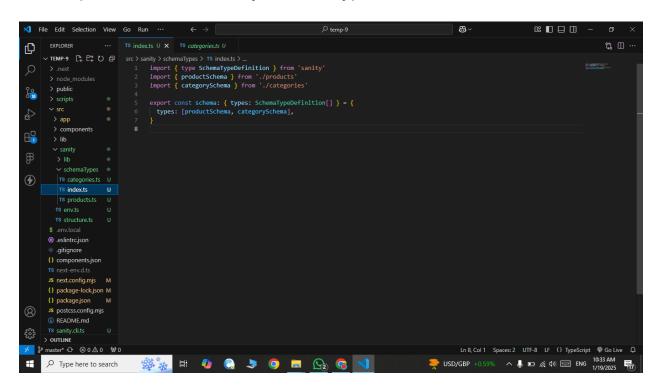
> .next
> node modules

1 import { defineType } from "sanity";
                                      name: 'categories',
title: 'Categories',
type: 'document',
fields: [
        > app
        > components
                                                    name: 'title',
title: 'Category Title',
type: 'string',
TS categories.ts U
                                                    name: 'image',
title: 'Category Image',
type: 'image',
          TS index.ts
         TS env.ts U
TS structure.ts U
       {} components.json
       JS next.config.mjs M
      JS postcss.config.mjs

 README.md

TS sanity.cli.ts
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```

Now import schema in /sanity/schemaType/index.ts



DATA MIGRATION SCRIPT:

- 1. Setting Up Environment Variables
- a. Create a .env file in the root of your project and add the following variables:

```
NEXT_PUBLIC_SANITY_PROJECT_ID="your projectId"

NEXT_PUBLIC_SANITY_DATASET="production"

NEXT_PUBLIC_SANITY_AUTH_TOKEN="auth token"
```

- b. Refer to the Practice Hackathon Docs for details on how to retrieve these values.
- 2. Create migrate.mjs file 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 AUTH TOKEN, // Sanity API token
= process.env;
if (!NEXT PUBLIC SANITY PROJECT ID || !NEXT PUBLIC SANITY AUTH TOKEN) {
.env.local file.");
 process.exit(1); // Stop execution if variables are missing
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 the
   });
 } catch (error) {
   console.error("Error uploading image:", error.message);
```

```
async function migrateData() {
 console.log("Starting data migration...");
   const categoriesData = await categoriesResponse.json(); // Parse
   const productsResponse = await fetch(`${BASE URL}/api/products`);
products.");
   const productsData = await productsResponse.json(); // Parse response
     console.log(`Migrating category: ${category.title}`);
```

```
const imageId = await uploadImageToSanity(category.imageUrl); //
Upload category image
       type: "categories",
       image: imageId ? { _type: "image", asset: { _ref: imageId } } :
     const result = await targetClient.createOrReplace(newCategory);
     categoryIdMap[category. id] = result. id; // Store the new category
     console.log(`Migrated category: ${category.title} (ID:
     console.log(`Migrating product: ${product.title}`);
     const imageId = await uploadImageToSanity(product.imageUrl); //
```

```
const newProduct = {
 type: "products",
  title: product.title,
 price: product.price,
 priceWithoutDiscount: product.priceWithoutDiscount,
 badge: product.badge,
  image: imageId ? { type: "image", asset: { ref: imageId } } :
 category: {
   _type: "reference",
   ref: categoryIdMap[product.category. id], // Use the migrated
  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
}
}
// Start the migration process
migrateData();
```

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

"scripts": {

```
"dev": "next dev",

"build": "next build",

"start": "next start",

"lint": "next lint",

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

},
```

Install the following package before running the script

npm install dotenv

Now run the command npm run migrate

