# DAY 3 - API INTEGRATION AND DATA MIGRATION

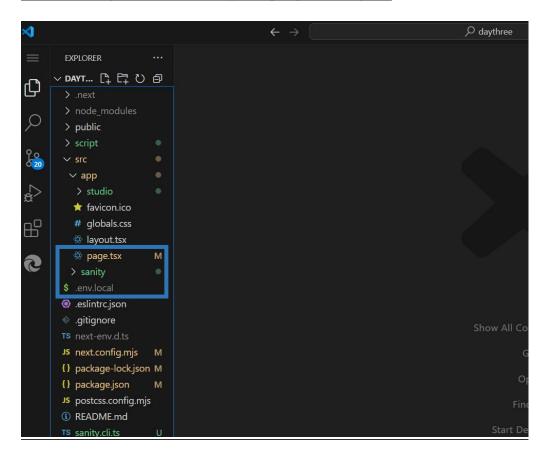
## Steps for Day 3

#### Installation of Sanity in Next. js:

#### Step 1: Create a new Next.js project



#### Check Sanity Installed in your project (if yes)



#### **Setting up Environment Variables:**

First, let's set up our environment variables. Create a `.env.local` file in your project root if it doesn't already exist. Add the following variables:

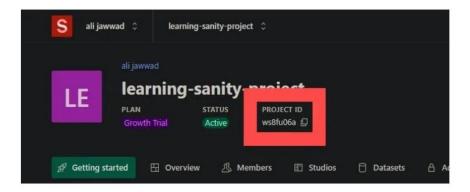
```
NEXT_PUBLIC_SANITY_PROJECT_ID=your_project_id
NEXT_PUBLIC_SANITY_DATASET=production
SANITY_API_TOKEN=your_sanity_token
```

#### **Obtaining Sanity Project ID and API Token:**

#### **Project ID**

To find your Sanity project ID:

- 1. Log in to your Sanity account at <a href="https://www.sanity.io/manage">https://www.sanity.io/manage</a>
  - 2. Select your project
  - 3. In the project dashboard, you'll see the project ID listed

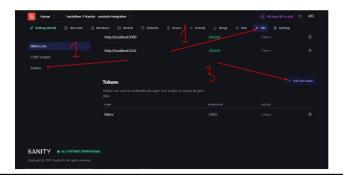


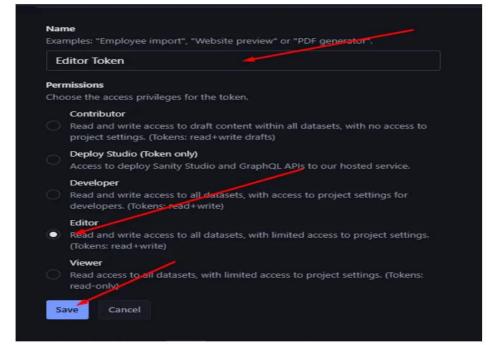
Use this ID for the `NEXT\_PUBLIC\_SANITY\_PROJECT\_ID `in your `.env.local `file.

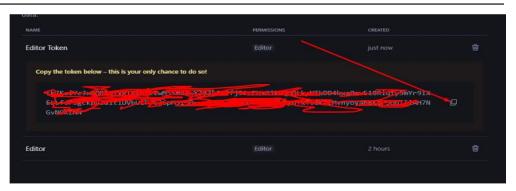
#### API Token

To generate a Sanity API token:

- 1. Go to https://www.sanity.io/manage and select your project
- 2. Navigate to the "API " tab
- 3. Under "Tokens," click "Add API token"
- 4. Give your token a name and select the appropriate permissions (usually
- "Editor "for full read/write access)
- 5. Copy the generated token







Use this token for the `SANITY\_API\_TOKEN` in your `.env.local` file.

### **Creating the Sanity Schema:**

Now, let's create a schema for our products. In your Sanity schema folder (usually `sanity/schemaTypes`), create a new file called `product.ts`:

```
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                  ··· TS product.ts U X
                         , , senemalypes > TS productts > [❷] produ
1 import { defineType } from "sanity"
2
∨ DAYT... [ ] [ ] [ ] [ ] [ ]
                          src > sanity > schemaTypes > TS product.ts > [❷] products > [❷] fields
                                export const products = defineType({
   # globals.css
                                    name: 'products',
   🔅 layout.tsx
                                    title: 'Products',
type: 'document',
fields: [
   🛱 page.tsx

✓ sanity

    > lib
                                           name: 'name',

✓ schemaTypes

                                          title: 'Name',
    TS authorType.ts U
                                           type: 'string',
    TS categoryTyp... U
                                           name: 'price',
                            15
                                            type: 'number',
    TS product.ts U
   TS env.ts
                                           name: 'description',
                                            title: 'Description',
 eslintrc.json
                                            type: 'text',
 gitignore
                                            name: 'image',
 JS next.config.mjs M
                                            title: 'Image',
 {} package-lock.json M
                                            type: 'image',
 {} package.json M
 JS postcss.config.mjs
```

Then, update your `sanity/schemaTypes/index.ts` file to include the new product schema:

```
∠ daythree

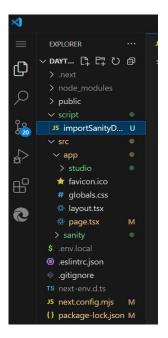
                                           TS index.ts U X
                        TS product.ts U
  EXPLORER
∨ DAYT... [ ] [ ] [ ] [ ] [ ]
                         src > sanity > schemaTypes > TS index.ts > ...
                         1 import { type SchemaTypeDefinition } from 'sanity'
 ∨ src
                               import { products } from './product'
   # globals.css
                          4 export const schema: { types: SchemaTypeDefinition[] } = {
   layout.tsx
                                 types: [products],
   🏶 page.tsx
    > lib

✓ schemaTypes

    TS authorType.ts U
    TS blockConte... U
    TS categoryTyp... U
    TS index.ts
    TS postType.ts U
    TS product.ts U
```

### Setting Up the Data Import Script:

Now, let's create a script to import data from an external API into Sanity. Create a new file `scripts/importSanityData.mjs` in your project root:



```
∨ DAYT... [‡ E‡ ひ 卣
                                                                                                                                async function uploadProduct(product) {

| product | pro
                                                                                                                                                                        console.log(`Product ${product.name} skipped due to image upload failure.`);
                                > public
> script

| Is importSanityD... U
| > src |
| app |
| > studio |
| favicon.ico |
| | globals.css |
| | layout.tsx |
| | page.tsx |
| > sanity |
| | s.env.local |
                                                                                                                                                                } catch (error) {
console.error('Error uploading product:', error);
                                                                                                                                                              async function importProducts() {
                                                                                                                                                                         if (!response.ok) {
    throw new Error(`HTTP error! Status: ${response.status}`);
}
                               .eslintrc.json
                                 gitignore
                                                                                                                                                                                 for (const product of products) {
   await uploadProduct(product);
                                 JS next.config.mjs M
                               {} package.json M
                                                                                                                                                                          } catch (error) {
| console.error('Error fetching products:', error);
                               JS postcss.config.mjs

    README.md

                              TS sanity.cli.ts
                        TS sanity.config.ts U
> OUTLINE
```

Now, let's install the necessary packages. Run the following command in your terminal:

```
npm install @sanity/client axios dotenv
```

### Running the Import Script:

To run the import script, I need to add a new script to our `package.json` file. Open your `package.json` and add the following to the `"scripts"` section:

```
EXPLORER
                       {} package.json M X
                        {} package.json > ...
∨ DAYTHREE
                                 "name": "daythree",
                                 "version": "0.1.0",
 > public
                          5 "type":"module",
  JS importSanityD... U
  ✓ src
                                 "scripts": {
                                   "dev": "next dev",

√ app

                                   "build": "next build",
                                   "start": "next start",
   🛊 favicon.ico
   # globals.css
                                  "import-data": "ts-node script/importSanityData.js"

☆ layout.tsx
```

Now run the import script using:

```
npm run import-data
```

This script will fetch products from the FakeStoreAPI, upload any associated images to Sanity's asset store, and then create new product documents in my Sanity dataset.

