

# Integrating Sanity API in a Next.js Project

This document outlines the steps taken to integrate the Sanity API into a Next.js project, detailing the process from setup to data migration. Each step is designed to ensure smooth integration and functionality of Sanity in the project.

## 1. Installing Sanity

To begin, Sanity was installed in the project directory using the following command:

```
npm install @sanity/client
```

This setup provides the necessary tools for interacting with Sanity's API.

## 2. Adding the Token in `.env.local`

To securely access the Sanity API, a token was generated and added to the `.env.local` file. This token provides authenticated access to the Sanity project.

Example:

```
NEXT_PUBLIC_SANITY_TOKEN=your-sanity-token
```

Ensure this file is included in `.gitignore` to prevent exposing sensitive information, as sharing it could lead to security vulnerabilities.

## 3. Defining the Schema

A new schema for products was created to structure the data. This was done by copying the schema into a file named `product.ts` located in the `schematype` folder. The schema defines the fields and structure for product data, such as `name`, `price`, and `description`.

## 4. Rendering the Schema

The schema file ( `product.ts` ) was then rendered in `index.ts` to connect it with the application's main logic. This step ensures that the defined schema integrates seamlessly with the Next.js project.

## 5. Creating the Data Import Script

A script to import data into Sanity was created in the `scripts` folder. Here are the steps:

1. Navigate to the root of the project and create a folder named `scripts`.
2. Inside the `scripts` folder, create a file named `importSanityData.mjs`.
3. Copy the migration script code into this file from the provided link. Ensure the source of the migration script is reliable.
4. Modify the script to align with the specific requirements of the project, such as mapping fields or transforming data formats as needed.

## 6. Updating the Configuration

The `package.json` file was updated to include a script for importing data. The following line was added to the `scripts` section:

```
"import-data": "node scripts/importSanityData.mjs"
```

This script automates the process of running the data migration file.

## 7. Running the Import Command

To execute the data import, the following command was run:

```
npm run import-data
```

This command successfully imported the required data into Sanity, making it available for use in the Next.js project.

# Conclusion

The integration of the Sanity API into the Next.js project was completed by:

- Installing Sanity and configuring the token.
- Defining and rendering a schema for product data.
- Creating a data import script and configuring it for easy execution.

This process ensures the seamless integration of Sanity into the Next.js application, allowing for efficient data management and rendering.