

# DAY 3 - API INTEGRATION

## AND DATA MIGRATION

Document Title: "Day 3 - API Integration Report - CommerceCore"

What to Submit:

- A report documenting:
  - API integration process.
  - Adjustments made to schemas.
  - Migration steps and tools used.
- Screenshots of:
  - API calls
  - Data successfully displayed in the frontend.
  - Populated Sanity CMS fields.
- Code snippets for API integration and migration scripts.

Day 3 Checklist:

Self-Validation Checklist:

- API Understanding ✓
- Schema Validation ✓
- Data Migration ✓
- API Integration in Next.js ✓
- Submission Preparation ✓

```
E:\New folder\E-Commerce-Hackathon>npm create sanity@latest

> my-hackathon@0.1.0 npx
> create-sanity

✓ You are logged in as asimhussain787@gmail.com using GitHub
✓ Fetching existing projects

? Create a new project or select an existing one Create new project
? Your project name: Day3-API-Integration
Your content will be stored in a dataset that can be public or private, depending on
whether you want to query your content with or without authentication.
The default dataset configuration has a public dataset named "production".
? Use the default dataset configuration? Yes
✓ Creating dataset
? Would you like to add configuration files for a Sanity project in this Next.js folder? Yes
? Do you want to use TypeScript? Yes
? Would you like an embedded Sanity Studio? Yes
? What route do you want to use for the Studio? /studio
? Select project template to use Clean project with no predefined schema types
? Would you like to add the project ID and dataset to your .env.local file? Yes
Added http://localhost:3000 to CORS origins
Running 'npm install --legacy-peer-deps --save @sanity/vision@3 sanity@3 @sanity/image-url@1 styled-components@6'
npm warn deprecated @sanity/block-tools@3.70.0: Renamed - use '@portabletext/block-tools' instead. '@sanity/block-tools' will no longer receive updates.

added 909 packages, changed 1 package, and audited 1278 packages in 3m

242 packages are looking for funding
  run `npm fund` for details

1 moderate severity vulnerability

To address all issues, run:
  npm audit fix --force

Run `npm audit` for details.

added 16 packages, and audited 1294 packages in 18s

242 packages are looking for funding
  run `npm fund` for details

1 moderate severity vulnerability

To address all issues, run:
  npm audit fix --force

Run `npm audit` for details.

Success! Your Sanity configuration files has been added to this project
```

Asim Hussain

DA

Day3-API-Integration

PLAN

Growth Trial

STATUS

Active

PROJECT ID

sxq6orcm

Getting started

Overview

Members

Studios

Datasets

Access

Activity

Usage

Plan

API

Settings

Webhooks

CORS origins

Tokens

GROQ-powered webhooks


HTTP callbacks to a given URL triggered by changes in your content lake

[Learn more about webhooks](#)

+ Create webhook

0 of 2 webhooks (2 included in plan)

Get more webhooks



CORS origins

+ Add CORS origin

Hosts that can connect to the project API.

ORIGIN	CREDENTIALS	CREATED	
http://localhost:3000	Allowed	31 minutes	
http://localhost:3333	Allowed	32 minutes	

Tokens

+ Add API token

Tokens are used to authenticate apps and scripts to access project data.

NAME	PERMISSIONS	CREATED	
Day-3	Developer	25 minutes	

Copy the token below – this is your only chance to do so!

skqFWMB5Iq604E1P0njXuv7Nf0pXGLFHersuL7IhavpnirGcqBBIpff0rYEEFqsKBLxrCwzSrdFHYVeRcd7xui  
Yedp8Gvqg8wTJ5UGTzt8wJDCUJ3jpptg4oc30HebGopomfhzdgIqoumukmhvG2vRKVh0doKv1Xc1icyYjw64jl  
pqWxZiRk

EXPLORER

E-COMMERCE-HAC...

.next

node\_modules

public

src

app

components

lib

sanity

lib

schemaTypes

TS index.ts

TS product.ts

TS env.ts

TS structure.ts

.env.local

.eslintrc.json

.gitignore

components.json

next-env.d.ts

next.config.mjs

package-lock.json

package.json

postcss.config.mjs

README.md

sanity.cli.ts

OUTLINE

.env.local

TS product.ts

TS index.ts

src > sanity > schemaTypes > TS product.ts > productSchema

1

export const productSchema = {

2

name: 'product',

3

title: 'Product',

4

type: 'document',

5

fields: [

6

{

7

name: 'productName',

8

title: 'Product Name',

9

type: 'string',

10

},

11

{

12

name: 'category',

13

title: 'Category',

14

type: 'string',

15

},

16

{

17

name: 'price',

18

title: 'Price',

19

type: 'number',

20

},

21

{

22

name: 'inventory',

23

title: 'Inventory',

24

type: 'number',

25

},

26

{

27

name: 'colors',

28

title: 'Colors',

29

type: 'array',

30

of: [{ type: 'string' }],

31

},

32

],

33

},

34

},

EXPLORER

E-COMMERCE-HAC...

> .next

> node\_modules

> public

> scripts

JS data-migration.mjs

U

> src

> app

> components

> lib

> sanity

> lib

> schemaTypes

TS index.ts

TS product.ts

TS env.ts

TS structure.ts

\$ .env.local

.eslintrc.json

.gitignore

{} components.json

TS next-env.d.ts

JS next.config.mjs

{} package-lock.json

{} package.json

JS postcss.config.mjs

> OUTLINE

> TIMELINE

scripts > JS data-migration.mjs > client > token

```
1 import { createClient } from '@sanity/client';
2 import axios from 'axios';
3 import dotenv from 'dotenv';
4 import { fileURLToPath } from 'url';
5 import path from 'path';
6
7 // Load environment variables from .env.local
8 const __filename = fileURLToPath(import.meta.url);
9 const __dirname = path.dirname(__filename);
10 dotenv.config({ path: path.resolve(__dirname, '../.env.local') });
11
12 // Create Sanity client
13 const client = createClient({
14   projectId: "sxq6orcm",
15   dataset: process.env.NEXT_PUBLIC_SANITY_DATASET,
16   useCdn: false,
17   token: "skqFWMB5Iq604ElP0njXuv7Nf0pXGLFHersuL7IhavpnirGcqBBIpff0rYEEFqsKBLxrCwzSrdFHYVeRcd7",
18   apiVersion: '2021-08-31'
19 });
20
21
22 async function uploadImageToSanity(imageUrl) {
23   try {
24     console.log(`Uploading image: ${imageUrl}`);
25     const response = await axios.get(imageUrl, { responseType: 'arraybuffer' });
26     const buffer = Buffer.from(response.data);
27     const asset = await client.assets.upload('image', buffer, {
28       filename: imageUrl.split('/').pop()
29     });
30     console.log(`Image uploaded successfully: ${asset._id}`);
31     return asset._id;
32   } catch (error) {
```

Ln 17, Col 192 Spaces: 2 UTF-8 CRLF

EXPLORER

E-COMMERCE-HAC...

> .next

> node\_modules

> public

> scripts

JS data-migration.mjs

U

> src

> app

> components

> lib

> sanity

> lib

> schemaTypes

TS index.ts

TS product.ts

{} package.json > {} dependencies

```
1 {
2   "name": "my-hackathon",
3   "version": "0.1.0",
4   "private": true,
5   "type": "module",
6   "scripts": {
7     "dev": "next dev",
8     "build": "next build",
9     "start": "next start",
10    "lint": "next lint",
11    "import-data": "node script/importSanityData.mjs"
12  },
13  "dependencies": {
14    "@next/font": "^14.2.15",
15    "@radix-ui/react-slot": "^1.1.0",
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

```
> node scripts/data-migration.mjs

migrating data please wait...
products ==>> [
  {
    productName: "Nike Air Force 1 Mid '07",
    category: "Men's Shoes",
    price: 10795,
    inventory: 20,
    colors: [ 'White' ],
    status: 'Just In',
    image: 'https://template-03-api.vercel.app/products/1.png',
  }
]
Image uploaded successfully: image-257e162393cc8f3486965fd649496e3ef9fe23be-348x348-png
Uploading image: https://template-03-api.vercel.app/products/4.png
Image uploaded successfully: image-11df72a5b65db2f78d3119889a742c134480265-348x348-png
Uploading image: https://template-03-api.vercel.app/products/5.png
Image uploaded successfully: image-46998b7aa7bbf7d305755b2964da5bf167434d40-348x348-png
Uploading image: https://template-03-api.vercel.app/products/6.png
Image uploaded successfully: image-0618b5440becd53aced91c6de2bd3c84757be8d1-348x348-png
Uploading image: https://template-03-api.vercel.app/products/7.png
Image uploaded successfully: image-b039b2d23e832f1d29375236a80f613bc011dbc3-348x348-png
Data migrated successfully!

E:\New folder\E-Commerce-Hackathon>
```



EXPLORER

E-COMMERCE-HACKATHON

> .next

> node\_modules

> pTypes

ts productType.ts

> public

> scripts

JS data-migration.mjs

> src

> app

> (auth)

> APIdata

page.tsx

FindAStore

fonts

> Help

page.tsx

JoinUs

> Men

> NewFeatured

> studio

> Women

★ favicon.ico

# globals.css

layout.tsx

page.tsx

> OUTLINE

> TIMELINE

Header.tsx M

page.tsx U

ts productType.ts U

ts product.ts U

ts queries.ts U

```
src > app > APIdata > page.tsx > [0] page > [0] useEffect() callback > [0] acquireProducts
1  "use client";
2  import React, { useState, useEffect } from 'react';
3  import Image from "next/image";
4  import { ProductType } from '../pTypes/productType';
5  import { client } from '@sanity/lib/client';
6  import Header from '@components/Header';
7  import Footer from '@components/Footer';
8  import { urlFor } from '@sanity/lib/image';
9  import { AllData } from '@sanity/lib/queries';
10
11  const page = () => {
12
13
14    const [product, setProduct] = useState<ProductType[]>([]);
15
16    useEffect(() => {
17      async function acquireProducts() {
18        const fetchedProducts:ProductType[] = await client.fetch(AllData)
19        setProduct(fetchedProducts)
20      }
21      acquireProducts();
22    },[]);
23
24
25
26
27    return (
28      <div>
29        <Header />
30        <div>
31
32        <div className='max-w-6xl mx-auto px-4 py-8'>
```

EXPLORER

E-COMMERCE-HACKATHON

> src

> components

Hero.tsx

SpecificFooter.tsx

SpecificHeader.tsx

> lib

> sanity

> lib

ts client.ts

Header.tsx M

page.tsx U

ts productType.ts U

ts product.ts U

ts queries.ts U

```
src > sanity > lib > ts queries.ts > ...
1  import { groq } from "next-sanity";
2
3  export const AllData = groq`*[_type == "product"]`;
4  export const Four = groq`*[_type == "product"][0..3]`;
```

The screenshot shows a web browser window with the URL `localhost:3000/studio/structure/product`. The page displays a list of products under the heading "Product". The products are listed with their names and prices:

- Nike Waffle One SE
- Nike Metcon 8
- Nike Blazer Mid '77 Vintage
- Nike Renew Run 3
- Nike Zoom Fly 5
- Nike Pegasus 40
- Nike Air Max 270
- Nike Court Vision Low
- Nike Dri-FIT UV Hyverse
- Nike Dunk Low Retro SE
- Nike Standard Issue Basketball Jersey
- Air Jordan 1 Elevate Low
- Nike Air Force 1 React
- Nike Air Force 1 PLT.AF.ORM
- Nike Court Vision Low Next Nature

The screenshot shows a web browser window with the URL `localhost:3000/APIdata`. The page displays a Nike website with a section titled "Data From API Sanity". The section displays a grid of product cards, each featuring a product image, name, and price:

Product Name	Price
Nike Air Force 1 Mid '07	\$10795
Nike Court Vision Low Next Nature	\$4995
Air Jordan 1 Elevate Low	\$11895
Nike Dri-FIT UV Hyverse	\$2495
Nike Air Max 270	\$13295
Nike Zoom Fly 5	\$11295
Nike Air Force 1 PLT.AF.ORM	\$8695
Nike Standard Issue Basketball Jersey	\$2695