Day 3: API Integration Report-[Ecommerce]
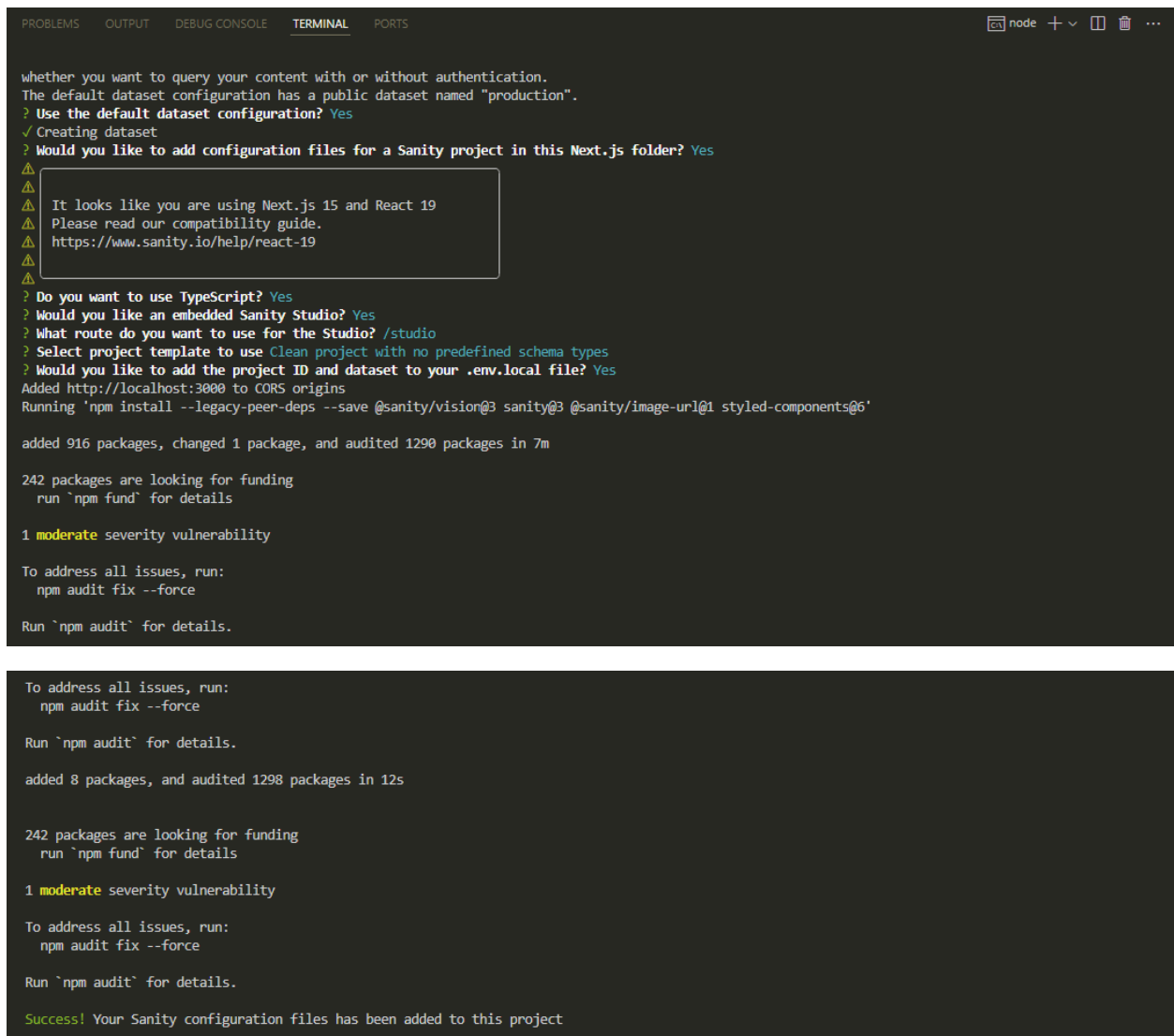
API Integration Process:

1.Understanding the Provided API

- **API Documentation:**
- **I reviewed the API documentation to understand the available endpoints and their response structures.**
- **Tools Used:**
- **Postman: Tested API endpoints to verify responses and check for errors.**
- **Browser Developer Tools: Validated API calls and responses directly in the application.**
- **Key Findings:**
- **The API returned product data including id,name,description,price,and image fields.**

2. API Integration Steps

- **Utility Function: I created a utility function to fetch data from the API.**

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

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
⚠
⚠
⚠   It looks like you are using Next.js 15 and React 19
⚠   Please read our compatibility guide.
⚠   https://www.sanity.io/help/react-19
⚠
⚠
? 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'

added 916 packages, changed 1 package, and audited 1290 packages in 7m

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.
```

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

Run `npm audit` for details.

added 8 packages, and audited 1298 packages in 12s

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
```

Aiman Adeeb

dayapi3

DA

PLAN	STATUS	PROJECT ID
Growth Trial	Active	w3k67ert ⧉

🚀 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

Activate Windows
Go to Settings to activate Windows.

There are no GROQ-powered webhooks in this project

Webhooks		
CORS origins		
Tokens		

CORS origins

Hosts that can connect to the project API.

+ Add CORS origin

ORIGIN	CREDENTIALS	CREATED	
http://localhost:3000	Allowed	2 hours	🗑
http://localhost:3333	Allowed	2 hours	🗑

Webhooks		
CORS origins		
Tokens		

Tokens

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

+ Add API token

NAME	PERMISSIONS	CREATED	
daythree	Developer	46 minutes	🗑

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

```
sk7wySE61lkI8hJSwGUXzRo3Ye4IZymlY1NJXOYHdhE0VhRKS2lR84ZYW5N81TYxL997XwmIJMPMKoE0IgtvUj
Il5h1FTK8duDJ3X4eK874UoXRHK4Bjdn6r20FzxNl5z2inDKg1RaInHHInmECkYCD3Pm9VfEO9j1H1TusgDUKF
W6MOTPdK
```
⧉

First screenshot — `src > sanity > schemaTypes > product.ts > default > fields`

```ts
export default {
  name: 'product',
  type: 'document',
  title: 'Product',
  fields: [
    {
      name: 'name',
      type: 'string',
      title: 'Name',
      validation: (Rule: any) => Rule.required().error('Name is required'),
    },
    {
      name: 'image',
      type: 'image',
      title: 'Image',
      options: {
        hotspot: true,
      },
      description: 'Upload an image of the product.',
    },
    {
      name: 'price',
      type: 'string',
      title: 'Price',
      validation: (Rule: any) => Rule.required().error('Price is required'),
    },
    {
      name: 'description',
      type: 'text',
      title: 'Description',
      validation: (Rule: any) =>
        Rule.max(150).warning('Keep the description under 150 characters.'),
```

Second screenshot — `src > sanity > schemaTypes > product.ts > default > fields > options > list`

```ts
export default {
  fields: [
    {
      name: 'discountPercentage',
      type: 'number',
      title: 'Discount Percentage',
      validation: (Rule: any) =>
        Rule.min(0).max(100).warning('Discount must be between 0 and 100.'),
    },
    {
      name: 'isFeaturedProduct',
      type: 'boolean',
      title: 'Is Featured Product',
    },
    {
      name: 'stockLevel',
      type: 'number',
      title: 'Stock Level',
      validation: (Rule: any) => Rule.min(0).error('Stock level must be a positive number.'),
    },
    {
      name: 'category',
      type: 'string',
      title: 'Category',
      options: {
        list: [
          { title: 'Chair', value: 'Chair' },
          { title: 'Sofa', value: 'Sofa' },
        ],
      },
      validation: (Rule: any) => Rule.required().error('Category is required'),
    },
```

Content

Product >

Product + ...

Q Search list

Luxury Flower Shell Sofa Chair

Cantilever Chair

Nordic Net Red Chair

Sobuy Blue Folding Chair Woode...

Varmora Plastic Chair Solid

Matilda Velvet Chair – Pink

Diondre Chair - Tuft Button - Acry...

Leisure Sofa Chair Set

Liberty Wood 63' Floating Enterta...

What's new
Sanity Create Content Mapping, Visual Editing, and Content Releases

● Published   ● Draft

Luxury Flower Shell Sofa Chair

Product

Luxury Flower Shell Sofa Chair

Name

Luxury Flower Shell Sofa Chair

Image
Upload an image of the product.

↑ Publish

DATASET	API VERSION	CUSTOM API VERSION	PERSPECTIVE ?	QUERY URL [COPY TO CLIPBOARD]
production ⌄	Other ⌄	v2025-02-05	raw ⌄	https://w3k67ert.api.sanity.io/v2025-02-05/data/query/p

QUERY

```
1  *[type==product]
```

PARAMS

```
1  {
2
3  }
```

RESULT

```
[…] 52 items
▼ 0: {…} 13 properties
    discountPercentage: 10
    price: 990
    category: Chair
  ▼ image: {…} 2 properties
      _type: image
    ▼ asset: {…} 2 properties
        _ref: image-de34e83f199a2cc87924c721e88a3f6a7104e804-260x300-png
        🔗
        _type: reference
    _rev: 0Yl6nHUEC5flALHQj3N8sn
    _type: product
    description: Iconic three-legged chair with faux leather and ash plywood frame.
    stockLevel: 8
    _updatedAt: 2025-02-06T21:45:09Z
    _createdAt: 2025-02-06T21:45:09Z
    name: Hans Wegner Style Three-Legged Shell Chair
```

```
token: sk7wySE61lkI8hJSwGUXzRo3Ye4IZymlY1NJXOYHdhE0VhRKS2lR84ZYW5N81TYxL997XwmIJMPMKoE0IgtvUjIl5h1FTK8duDJ3X4eK874UoXRHK4
```

```js
import { createClient } from '@sanity/client';
import axios from 'axios';
import dotenv from 'dotenv';
import { fileURLToPath } from 'url';
import path from 'path';

const __filename = fileURLToPath(import.meta.url);
const __dirname = path.dirname(__filename);
dotenv.config({ path: path.resolve(__dirname, '../../.env') });

const client = createClient({
  projectId: w3k67ert,
  dataset: product,
  token: sk7wySE61lkI8hJSwGUXzRo3Ye4IZymlY1NJXOYHdhE0VhRKS2lR84ZYW5N81TYxL997XwmIJMPMKoE0IgtvUjIl5h1FTK8duDJ3X4eK874UoXRHK4
  apiVersion: '2025-01-15',
  useCdn: false,
});

async function uploadImageToSanity(imageUrl) {
  try {
    console.log(`Uploading Image : ${imageUrl}`);
    const response = await axios.get(imageUrl, { responseType: 'arraybuffer' });
    const buffer = Buffer.from(response.data);
    const asset = await client.assets.upload('image', buffer, {
      filename: imageUrl.split('/').pop(),
    });
    console.log(`Image Uploaded Successfully : ${asset._id}`);
    return asset._id;
```

```json
{
  "name": "website",
  "version": "0.1.0",
  "private": true,
  "type": "module",
  "scripts": {
    "dev": "next dev --turbopack",
    "build": "next build",
    "start": "next start",
    "lint": "next lint",
    "import-data":"node script/importData.mjs"
  },
  "dependencies": {
```