### Day 3 - API Integration Report - [SHOP.CO]

#### > API integration process

- 1. Install and configure the Sanity client in project.
- 2. Write a GROQ query to fetch product data, including all necessary fields.
- 3. Use the sanity.fetch () method to retrieve data.
- 4. Map over the fetched products and render the information dynamically.
- 5. Add error handling to show fallback UI if the API fails.
- 6. Create a Typescript interface to ensure consistency.

### > Adjustments made to schema

- Added Options to category:
  - o Defined a dropdown list for predefined categories: T-Shirt, Short, Jeans, Hoodie, Shirt.
- Enhanced colors Field:
  - o Converted colors to an array of strings for flexibility in defining multiple color options.
- Enhanced sizes Field:
  - Converted sizes to an array of strings to support multiple size options.
- Added new Field:
  - o Introduced a boolean field to mark whether a product is newly added.
- Included discountPercent Field:
  - o Added a field to define the discount percentage for each product.

### > Migration steps and tools used.

#### Migration Steps

- Schema Update: Added new fields and enhanced category options.
- **Backup**: Exported the existing dataset for safety.
- Deployment: Deployed changes using sanity deploy.
- **Data Migration**: Used GROQ queries and manual edits to update existing data.
- Validation: Verified data integrity and tested API responses.

#### **Tools Used**

- Sanity Studio: Schema adjustments and manual edits.
- Sanity CLI: For deployment.
- **GROQ**: Querying and updating data.
- Next.js: Frontend integration and testing.

## **Sanity Installation**

```
added 8 packages, and audited 1364 packages in 18s

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

1 high severity vulnerability

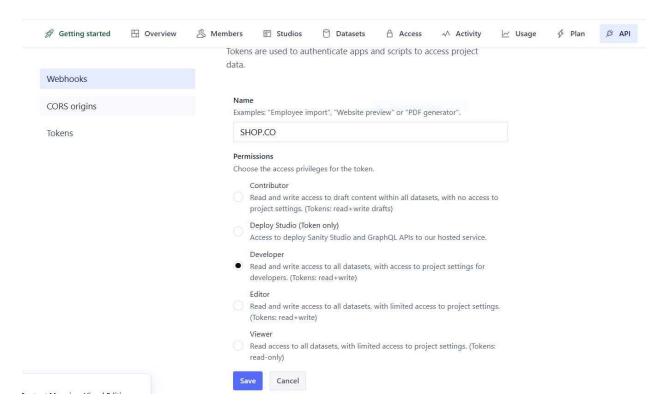
❖ To address all issues, run: npm audit fix --force

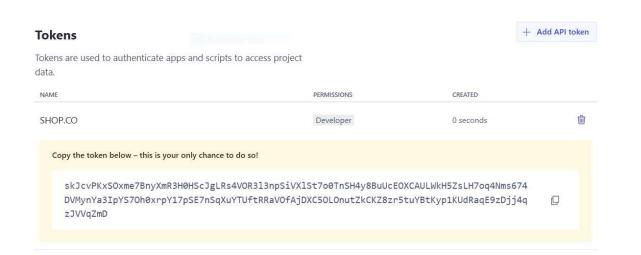
Run `npm audit` for details.

Success! Your Sanity configuration files has been added to this project PS C:\Users\USER\Desktop\shopco> []
```

```
import { defineType } from "sanity"
   export default defineType({
        name: 'products',
        title: 'Products',
        type: 'document',
        fields: [
            {
            name: 'name',
            title: 'Name',
11
            type: 'string',
            },
            name: 'price',
            title: 'Price',
            type: 'number',
            },
            name: 'description',
            title: 'Description',
            type: 'text',
            },
            name: 'image',
            title: 'Image',
            type: 'image',
            },
            {
                name:"category",
                title: "Category",
                type: 'string',
                options:{
                    list:
                       {title: 'T-Shirt', value: 'tshirt'},
                       {title: 'Short', value: 'short'},
                       {title: 'Jeans', value: 'jeans'} ,
                       {title: 'Hoddie', value: 'hoodie'} ,
                       {title: 'Shirt', value: 'shirt'} ,
                    ]
            },
                name:"discountPercent",
                title: "Discount Percent",
                type: 'number',
            },
```

### **Token Generation**





### .env.local

```
$ .env.local

1  NEXT_PUBLIC_SANITY_PROJECT_ID="abxbskhb"

2  NEXT_PUBLIC_SANITY_DATASET="production"

3  SANITY_API_TOKEN="skzdAxTlbSqxxqx2rtyWjdBUHqF0R0b0xalZFQ6b510sgbFSECyCSaN4Jt4qbCAq7PVIWe8xFqjQTP6Kq93s059Dkkeonf28AbiMzwAFRSrg8blyHcSyh107kGn3d3HkOy
R9zMVOaxJf9nKOc0G79BA9gryrHseRyOMWeztpizWC1eViE25No"
```

### Package.json

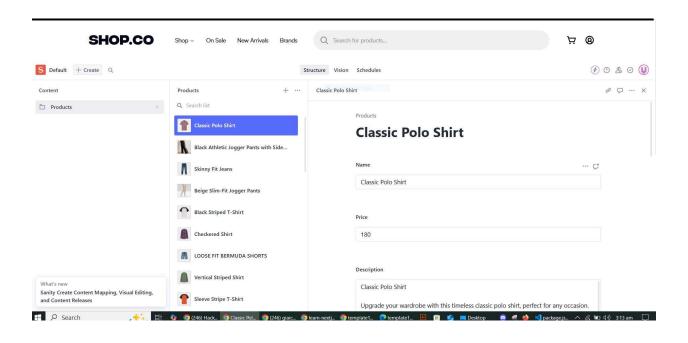
```
🔅 layout.tsx
                                                                               TS in
  EXPLORER
                                            $ .env.local
                                                             TS products.ts
∨ SHOPCO [ ☐ ☐ O ☐
                           {} package.json > {} scripts
  > .next
                                    "name": "yt",
  > node_modules
                                    "version": "0.1.0",
  > public
                                    "private": true,

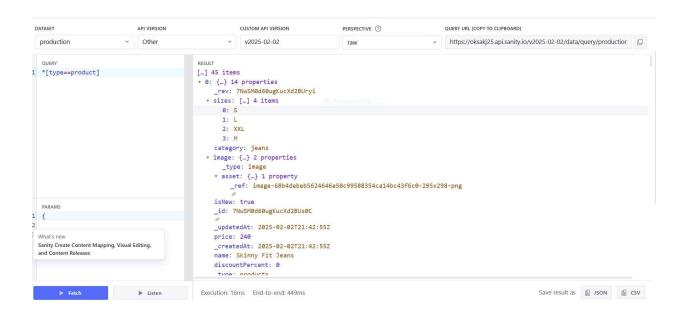
✓ scripts

                                    "type": "module",
  JS importData.js
                                     > Debug
                                    "scripts": {
  > src
                                      "dev": "next dev",
 $ .env.local
                                      "build": "next build",
 .eslintrc.json
                                      "start": "next start",
 🌺 .gitignore
                                      "lint": "next lint",
 {} components.json
                                      "import-data": " node script/importData.
                            11
 TS next-env.d.ts
                            12
                                    "dependencies": {
 JS next.config.mjs
                            13
                                       "@radix-ui/react-accordion": "^1.2.2",
 {} package-lock.json
                                       "@radix-ui/react-checkbox": "^1.1.3",
                            15
 {} package.json
                                       "@radix-ui/react-dialog": "^1.1.2",
 JS postcss.config.mjs
                                       "@radix-ui/react-dropdown-menu": "^2.1.4
                            17
 README.md
                                       "@radix-ui/react-label": "^2.1.0",
                            18
```

# Script/importData.js

```
const client = createClient({
    projectId: labbskNb',
    dataset: |production',
    useCdn: true,
    aptWersion: '2825-01-12',
    token: '3825-01-12',
    token: '3825-01-12',
    token: 'sk2dd7X18SQbQv2TVYjkJBUNqFOR8b0xalZFQ8b51oSgbFSECyCSaN4Jt4qbCAq7FVINe8xfqjQTP6Xq93s859Dkkeonf28AbiMzwAFRSrg8blyHcSyh1O7KGn3d3HkOyR9zMVOax3f9nKOc8G798A9gryrHseRyOMeztpizMCleViE25No',
     const response = await fetch(imageUrl);
if (!response.ok) {
   throw new Error('Failed to fetch image: ${imageUrl}');
}
      const asset = await client.assets.upload('image', bufferImage, {
  filename: imageUrl.split('/').pop(),
  console.log('Image uploaded successfully: $(asset._id)');
return asset._id;
) catch (error) {
console.error('Failed to upload image:', imageUr1, error);
return null;
         } else {
    console.log('Product ${product.name}) skipped due to image upload failure.');
  cansule.regg Floant style deatermane; style
}
} catch (error) {
console.error('Error uploading product:', error);
importProducts();
```





```
c(spin)
))
classMame="text-1g font-semilooid st-2">(product.name)
c/k2>
cclassMame="text-gray>500 text-se italit">
Cateony: (product.cateony)
601

className="text-slate-800 mt-2 text-sn">
    (truncateDescription(product.description))
```

