

# Day 3 - API Integration Report - [Ann Fashion Store]

## Hackathon Task #3

### Component Overview

The CataloguePage component fetches product data from **Sanity CMS** and renders it in a user-friendly interface. It is divided into two main parts:

1. **Data Fetching:** Retrieves product data from Sanity CMS using GROQ queries.
  2. **CatalogueUI:** Displays the fetched data in a responsive grid layout with product details and images.
- **Purpose:** Fetches product data from Sanity CMS.
  - **Error Handling:** Displays an error message if the fetch fails.
  - **Loading State:** Shows a loading message while data is being fetched.

### Key Features

1. **Responsive Design:**
  - Adapts to screen sizes using Tailwind CSS grid utilities.
2. **Error and Loading States:**
  - Displays appropriate messages during data fetching or errors.
3. **Dynamic Data Rendering:**
  - Uses data from Sanity CMS to populate product details dynamically.

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### Usage

- **Fetch and Display Products:** Automatically fetches data from Sanity CMS when the component loads.
  - **Responsive Layout:** Optimized for all screen sizes, ensuring a seamless user experience.
  - **Navigation:** Links to individual product pages for more details.
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## Benefits

- Simplifies managing and displaying product listings with minimal manual effort.
- Provides a scalable solution for integrating product catalogs into e-commerce projects.
- Enhances the user experience with responsive design and real-time data fetching.

This component is ideal for building visually appealing and functional product listing pages in a marketplace project.

```

1  "use client";
2
3  import { useState, useEffect } from 'react';
4  import { client } from '@sanity/lib/client';
5  import React from 'react';
6  import Image from 'next/image';
7  import Link from 'next/link';
8
9  interface Product {
10   _id: string;
11   ProductName: string;
12   ProductPrice: string;
13   ProductDescription: string;
14   imageUrl: string;
15 }
16
17 export default function CataloguePage() {
18   const [data, setData] = useState<Product[]>([]);
19   const [loading, setLoading] = useState(true);
20   const [error, setError] = useState<string | null>(null); // Add error state
21
22   // Fetch data on the client side
23   useEffect(() => {
24     const fetchData = async () => {
25       try {
26         const fetchedData: Product[] = await client.fetch(`*[_type == "post"] {
27           ProductName,
28           ProductPrice,
29           ProductDescription,
30           "imageUrl": ProductImage.asset->url,
31           _id
32         }`);
33         setData(fetchedData);
34         setLoading(false);
35       } catch (err: any) {
36         setError("Failed to fetch products. Please try again later.");
37         setLoading(false);
38       }
39     };
40
41     fetchData();
42   }, []);
43
44   if (loading) {
45     return <p className="text-center mt-10">Loading...</p>;
46   }
47
48   if (error) {
49     return <p className="text-center mt-10 text-red-500">{error}</p>;
50   }
51
52   // Return the UI with the fetched data
53   return <CatalogueUI products={data} />;
54 }
55
56 // Client Component for UI and interactivity
57 function CatalogueUI({ products }: { products: Product[] }) {
58   return (
59     <div className="flex flex-col items-center mt-10 px-4">
60       <h1 className="text-center text-2xl sm:text-2xl md:text-3xl lg:text-4xl font-bold text-pink-500">
61         New Arrivals
62       </h1>
63
64       <div className="grid grid-cols-1 sm:grid-cols-2 md:grid-cols-3 lg:grid-cols-4 gap-6 mt-6 w-full px-8 py-6 lg:py-8">
65         {products.map((item) => (
66           <div
67             key={item._id}
68             className="h-full border rounded-lg shadow-lg overflow-hidden p-5 flex flex-col items-center bg-gray-100 border-gray-200"
69           >
70             <Image
71               src={item.imageUrl || "/placeholder-image.jpg"}
72               alt={item.ProductName || "Product image"}
73               width={250}
74               height={250}
75               className="rounded-t-lg transition-transform duration-300 ease-in-out hover:scale-105"
76             />
77             <h2 className="text-lg font-semibold text-gray-800 mt-4 text-center">
78               {item.ProductName}
79             </h2>
80             <p className="text-pink-500 font-bold text-center mt-2">
81               Rs. {item.ProductPrice || "Price not available"}
82             </p>
83             <p className="text-sm text-gray-600 text-center mt-2">
84               {item.ProductDescription || "Description not available."}
85             </p>
86             <div className="mt-auto">
87               <Link href={`/${item._id}`}>
88                 <button className="bg-pink-500 text-white py-2 px-4 rounded hover:bg-gray-500">
89                   View Details
90                 </button>
91               </Link>
92             </div>
93           </div>
94         ))}
95       </div>
96     </div>
97   );
98 }
99

```

