

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

## Hackathon Task #3

### **Product Detail Page for Sanity CMS:**

This documentation explains the structure and functionality of the **Product Detail Page**, which displays detailed information about a single product fetched from **Sanity CMS**.

The ProductDetailPage is a **server-side component** in Next.js that:

1. Fetches product data from **Sanity CMS** using a unique id.
2. Displays the product details using a client-side UI component called ProductDetailUI

- **Query:**

- Fetches a single product from the post document where \_id matches the provided id.
- Retrieves fields:
  - ProductName: Name of the product.
  - ProductPrice: Price of the product.
  - ProductDescription: Description of the product.
  - imageUrl: URL of the product image.

- **Parameters:**

- The id parameter is passed dynamically to filter the specific product.

### **Key Features**

1. **Server-Side Rendering (SSR):**
  - The product data is fetched on the server before rendering the page, ensuring up-to-date content.
2. **Dynamic Routing:**

- Utilizes Next.js dynamic routing ([id].tsx) to generate pages for each product based on its unique id.
3. **Error Handling:**
- Displays a user-friendly message if the product is not found.
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## Usage

1. **URL Structure:**
    - Access a product's detail page via /product/{id}, where {id} is the product's unique identifier.
  2. **Real-Time Updates:**
    - The use of server-side fetching ensures the product details are always up-to-date with the latest data in Sanity CMS.
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## Benefits

- **Performance:** Server-side rendering ensures faster initial page loads and better SEO.
- **Scalability:** Easily handles dynamic content for multiple products by using unique id parameters.
- **Modularity:** Separates data fetching and UI rendering for better maintainability.

This component is a core part of building an e-commerce website or marketplace, providing dynamic and detailed product pages for users.



```
1 // pages/product/[id].tsx (Server Component)
2 import { client } from "@sanity/lib/client";
3 import ProductDetailUI from "@app/Components/ProductDetailUI";
4
5 interface Product {
6   ProductName: string;
7   ProductPrice: string;
8   ProductDescription: string;
9   imageUrl: string;
10  _id: string;
11 }
12
13 export default async function ProductDetailPage({ params }: { params: { id: string } }) {
14   const { id } = params;
15
16   // Fetch product data from Sanity
17   const product: Product | null = await client.fetch(
18     `*[_type == "post" && _id == $id][0] {
19     ProductName,
20     ProductPrice,
21     ProductDescription,
22     "imageUrl": ProductImage.asset->url,
23     _id
24   }`,
25     { id }
26   );
27
28   if (!product) {
29     return <p className="text-center mt-10">Product not found.</p>;
30   }
31
32   // Pass the fetched product data to the client-side UI
33   return <ProductDetailUI product={product} />;
34 }
35
```