Building Dynamic Frontend Components for E-commerce

Product Listing Component:

The Product Listing Component is responsible for fetching and displaying products dynamically from **Sanity CMS** in a responsive grid layout. Each product card includes essential information and a link to its detail page.

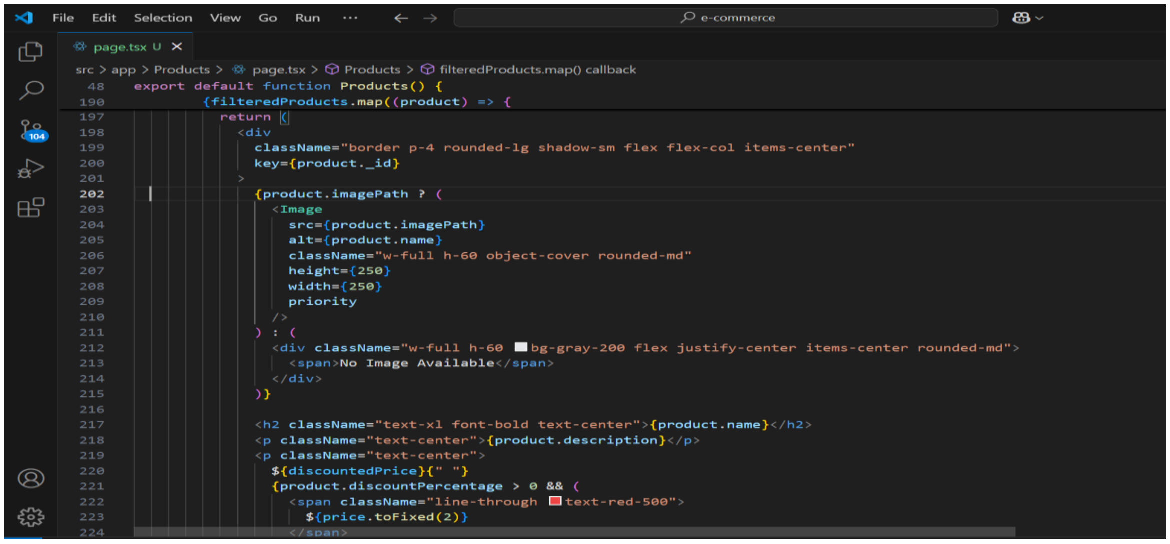
Features

1. **Data Fetching**
   - Product data is fetched from Sanity CMS
2. **Dynamic Grid Layout**
   - Products are displayed in a responsive grid using CSS or a framework like Tailwind CSS.
3. **Dynamic Routing**
   - Each product card links to its detail page using dynamic routing in Next.js.

Fields Displayed on Product Cards

- Product Name
- Price
- Image
- View Details Button

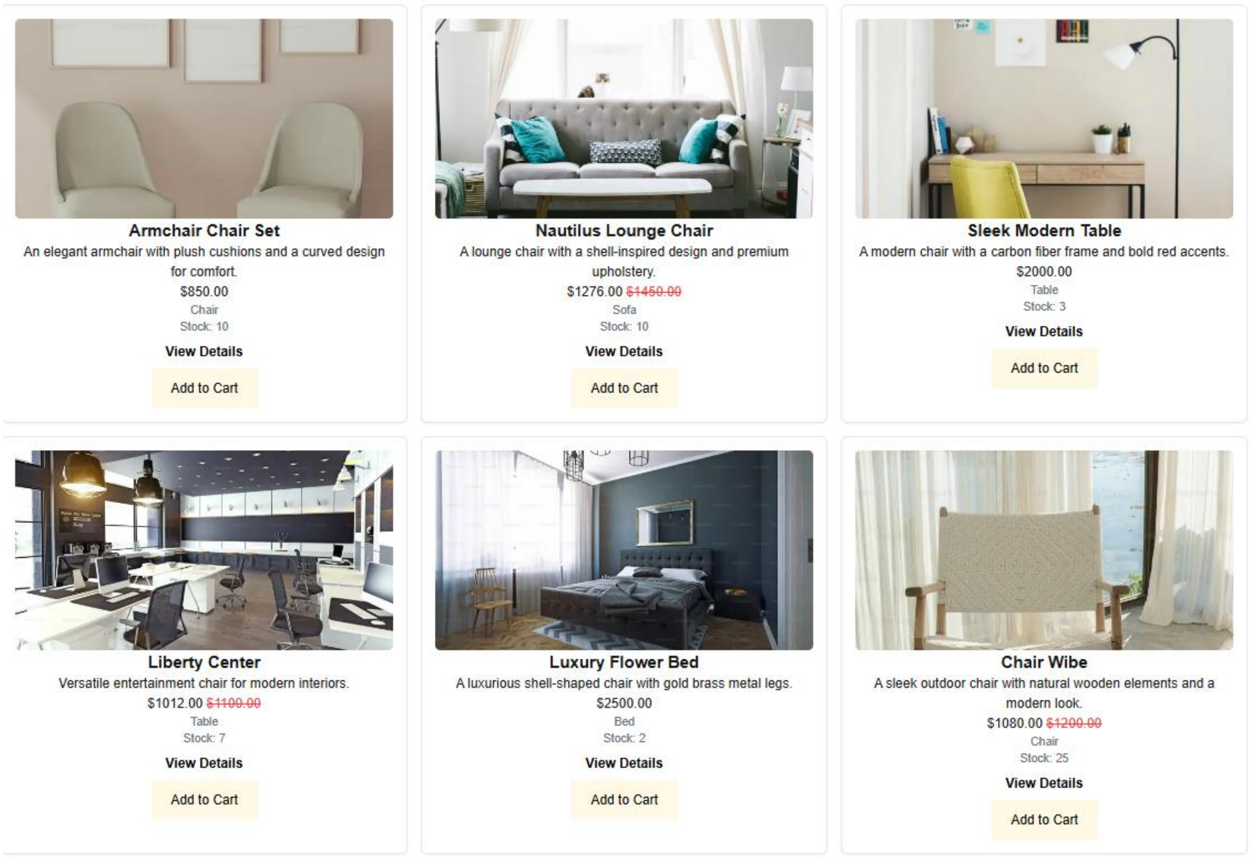
Code Snippet :


File
Edit
Selection
View
Go
Run
e-commerce
page.tsx U
src > app > Products > page.tsx > Products > filteredProducts.map() callback

```tsx
export default function Products() {
        {filteredProducts.map((product) => {
            return (
              <div
                className="border p-4 rounded-lg shadow-sm flex flex-col items-center"
                key={product._id}
              >
                {product.imagePath ? (
                  <Image
                    src={product.imagePath}
                    alt={product.name}
                    className="w-full h-60 object-cover rounded-md"
                    height={250}
                    width={250}
                    priority
                  />
                ) : (
                  <div className="w-full h-60 bg-gray-200 flex justify-center items-center rounded-md">
                    <span>No Image Available</span>
                  </div>
                )}

                <h2 className="text-xl font-bold text-center">{product.name}</h2>
                <p className="text-center">{product.description}</p>
                <p className="text-center">
                  ${discountedPrice}{" "}
                  {product.discountPercentage > 0 && (
                    <span className="line-through text-red-500">
                      ${price.toFixed(2)}
                    </span>
```

Output:



Armchair Chair Set
An elegant armchair with plush cushions and a curved design for comfort.
$850.00
Chair
Stock: 10
View Details
Add to Cart

Nautilus Lounge Chair
A lounge chair with a shell-inspired design and premium upholstery.
$1276.00 ~~$1450.00~~
Sofa
Stock: 10
View Details
Add to Cart

Sleek Modern Table
A modern chair with a carbon fiber frame and bold red accents.
$2000.00
Table
Stock: 3
View Details
Add to Cart

Liberty Center
Versatile entertainment chair for modern interiors.
$1012.00 ~~$1100.00~~
Table
Stock: 7
View Details
Add to Cart

Luxury Flower Bed
A luxurious shell-shaped chair with gold brass metal legs.
$2500.00
Bed
Stock: 2
View Details
Add to Cart

Chair Wibe
A sleek outdoor chair with natural wooden elements and a modern look.
$1080.00 ~~$1200.00~~
Chair
Stock: 25
View Details
Add to Cart

Product Detail Component

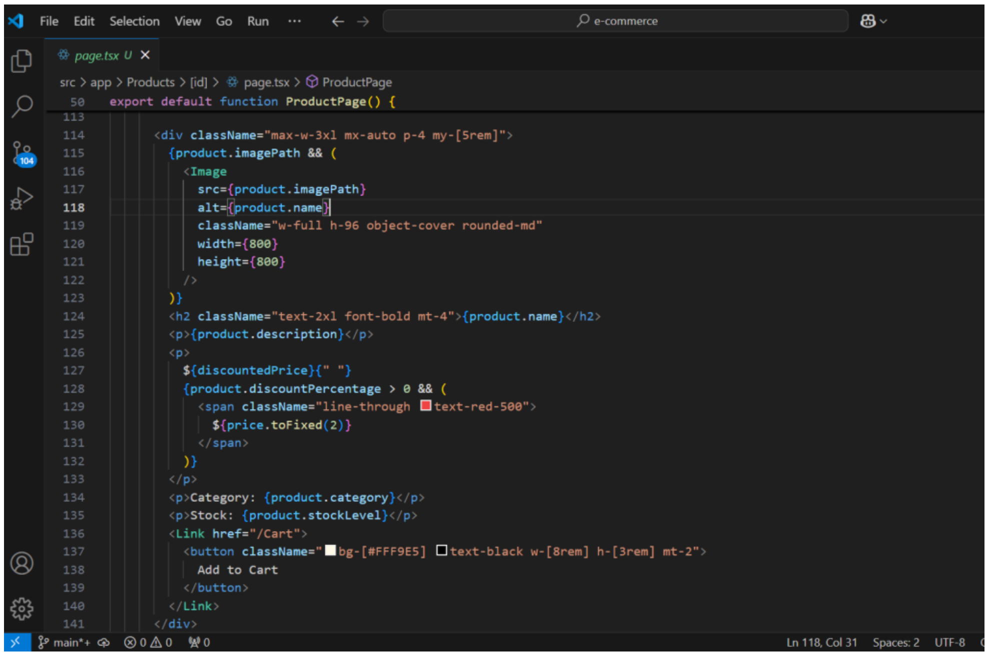
The Product Detail Component dynamically renders individual product pages based on the `slug` field, leveraging Next.js dynamic routing.

Features

1. **Dynamic Routing**
   - The product detail pages are dynamically generated based on slugs fetched from Sanity CMS.
2. **Comprehensive Product Details**
   - Each detail page includes a complete set of product information.

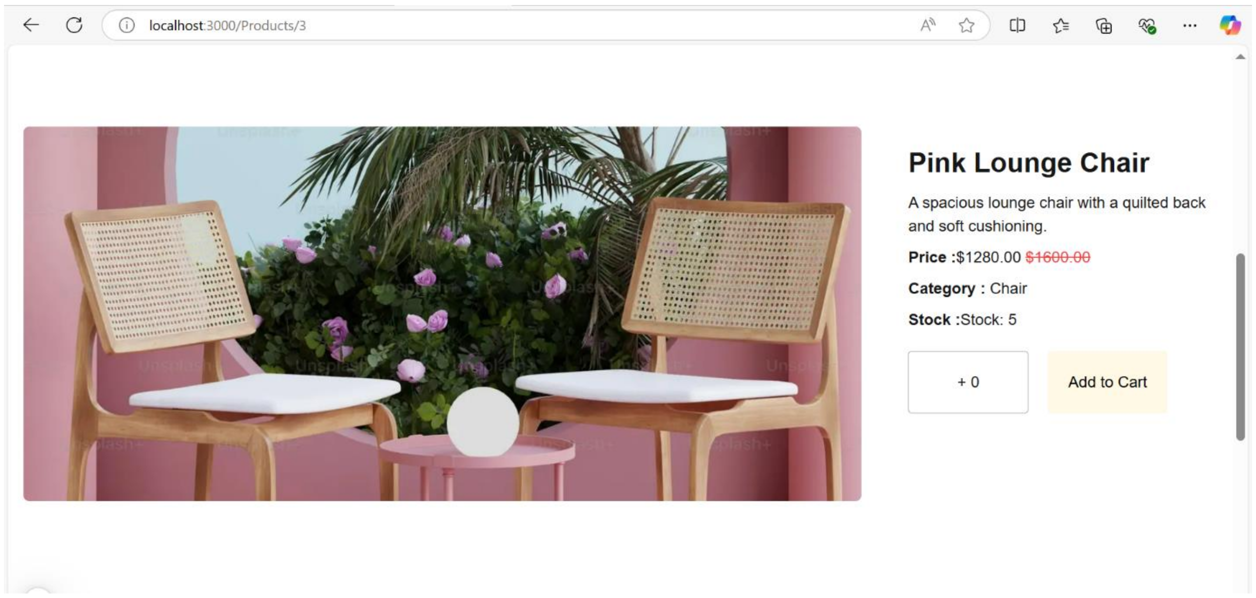
Fields Displayed on Product Detail Page

- Image
- Product Name
- Product Description
- Price
- Stock Status


page.tsx U
src > app > Products > [id] > page.tsx > ProductPage
e-commerce
main*+
Ln 118, Col 31 Spaces: 2 UTF-8

```
export default function ProductPage() {
      <div className="max-w-3xl mx-auto p-4 my-[5rem]">
        {product.imagePath && (
          <Image
            src={product.imagePath}
            alt={product.name}
            className="w-full h-96 object-cover rounded-md"
            width={800}
            height={800}
          />
        )}
        <h2 className="text-2xl font-bold mt-4">{product.name}</h2>
        <p>{product.description}</p>
        <p>
          ${discountedPrice}{" "}
          {product.discountPercentage > 0 && (
            <span className="line-through text-red-500">
              ${price.toFixed(2)}
            </span>
          )}
        </p>
        <p>Category: {product.category}</p>
        <p>Stock: {product.stockLevel}</p>
        <Link href="/Cart">
          <button className="bg-[#FFF9E5] text-black w-[8rem] h-[3rem] mt-2">
            Add to Cart
          </button>
        </Link>
      </div>
```

Output:



Pink Lounge Chair

A spacious lounge chair with a quilted back and soft cushioning.

Price :$1280.00 ~~$1600.00~~

Category : Chair

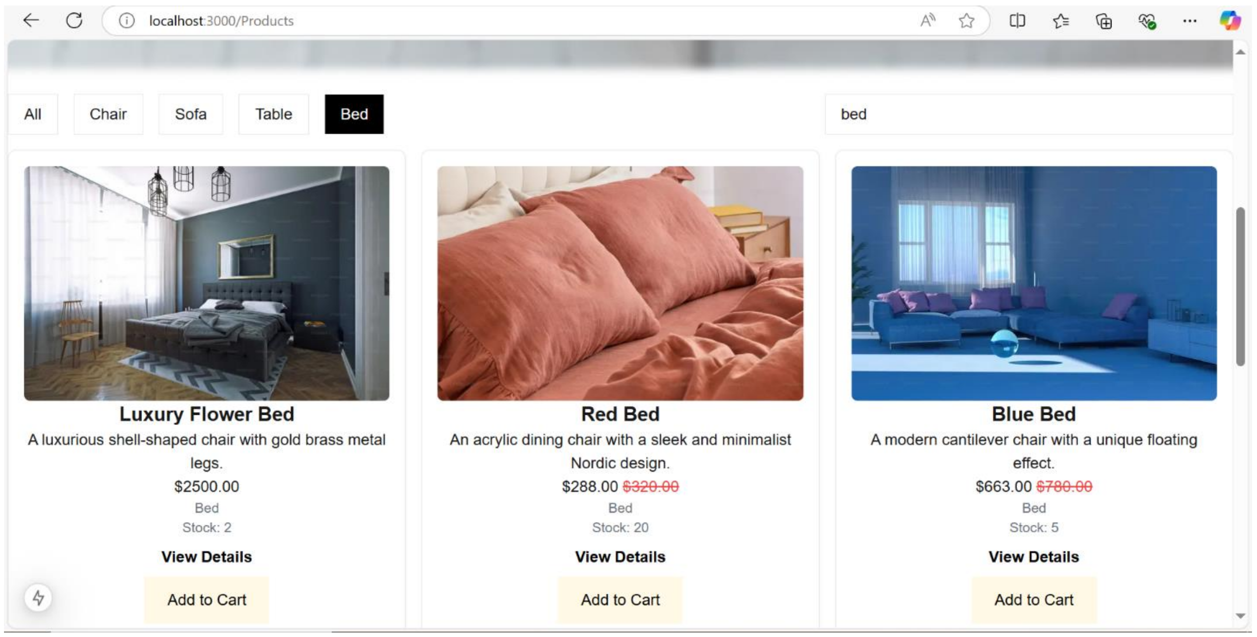
Stock :Stock: 5

Category Component:

Categories are dynamically fetched from the data source to ensure scalability and easy updates.

Users can **filter** products by selecting different categories button

A **search bar** allows users to filter products by name or tags in real time, ensuring quick access to desired products.



Luxury Flower Bed
A luxurious shell-shaped chair with gold brass metal legs.
$2500.00
Bed
Stock: 2
View Details
Add to Cart

Red Bed
An acrylic dining chair with a sleek and minimalist Nordic design.
$288.00 ~~$320.00~~
Bed
Stock: 20
View Details
Add to Cart

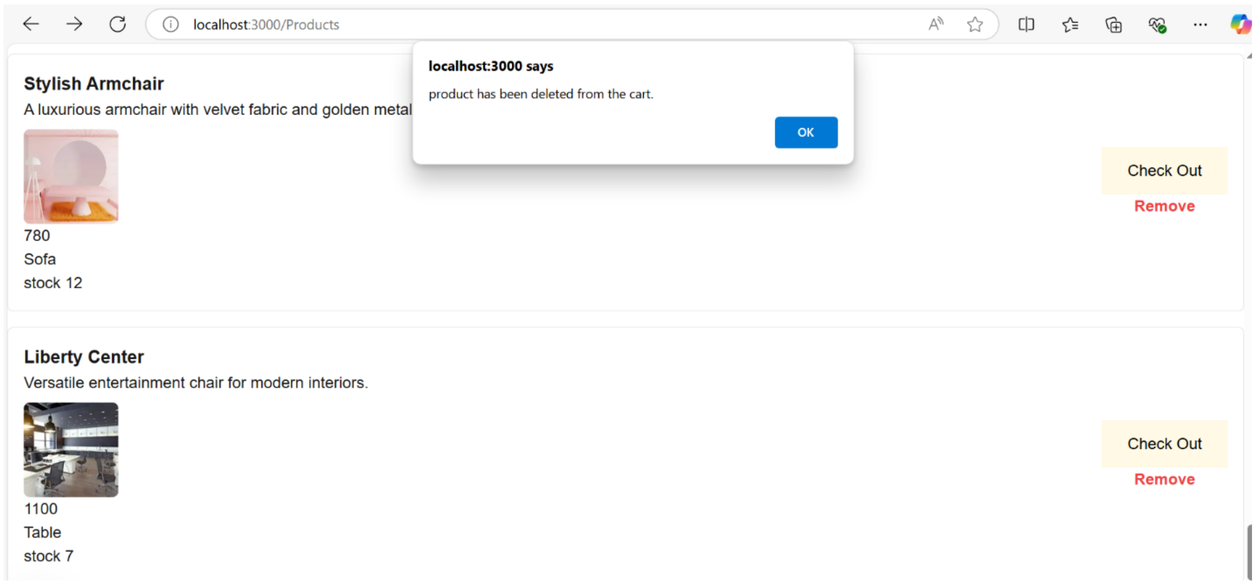
Blue Bed
A modern cantilever chair with a unique floating effect.
$663.00 ~~$780.00~~
Bed
Stock: 5
View Details
Add to Cart

Cart section:

When a user clicks on the **"Add to Cart"** button for a product, the item will be added to the cart section displayed below. A prompt or notification will appear, confirming that the product has been successfully added to the cart. The cart section will then dynamically update to show the product details, including its name, image, price, and stock level.

Within the cart section, users will have the following options:

1. **Proceed to Checkout:** A button to redirect the user to the checkout page for completing the purchase.
2. **Remove Product:** An option to remove the product from the cart. When the user clicks on the remove button, a prompt will notify them that the product has been successfully deleted from the cart. The cart section will then update to reflect the changes.



localhost:3000 says

product has been deleted from the cart.

Stylish Armchair

A luxurious armchair with velvet fabric and golden metal

780

Sofa

stock 12

Liberty Center

Versatile entertainment chair for modern interiors.

1100

Table

stock 7

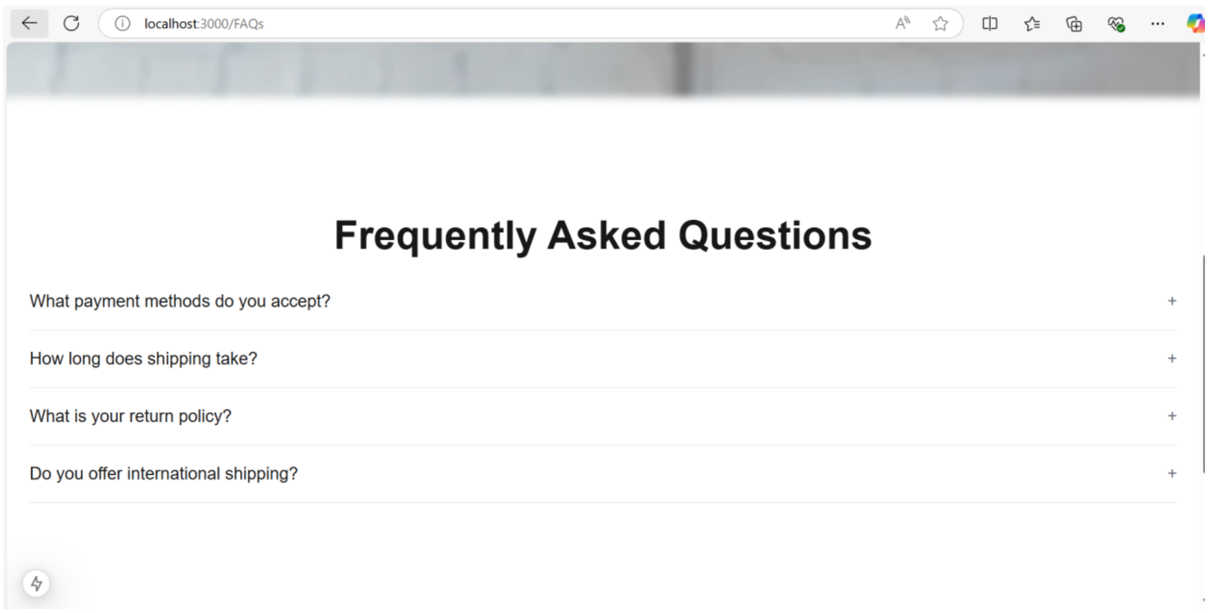
FAQ Component

The **FAQ Component** is a functional and interactive module designed to provide users with clear and concise answers to common questions. Built using React, this component incorporates a state management system for dynamic behavior. Here's an overview of its functionality:

 State Management: The useState hook manages the activeIndex state to control which question is expanded or collapsed.

 Dynamic FAQ Content: FAQs are stored in an easily editable array of objects containing questions and answers.

 Interactive Toggle: Clicking a question dynamically expands or collapses its answer using the handleToggle function.



Frequently Asked Questions

What payment methods do you accept? +

How long does shipping take? +

What is your return policy? +

Do you offer international shipping? +