

# Dynamic Front-End Components

(Comforty)

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7. Best practice

## Overview:

This document provides outline of the key components and pages in Comforty (general E-commerce website).

While reviewing the provided UI here are the pages and Component that I created for website.

## Pages:

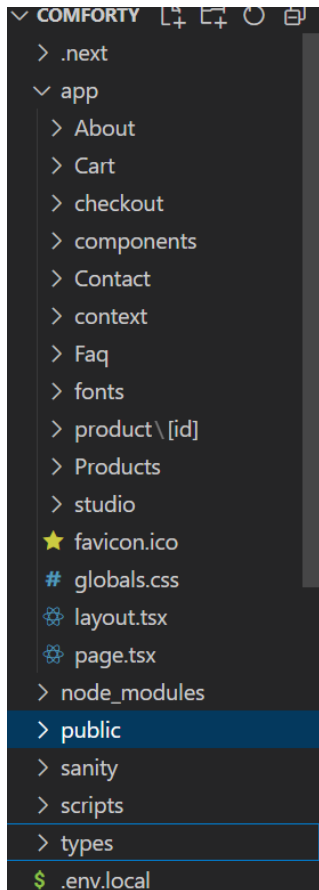
- Home
- About
- Product
- Questions
- Cart
- Dynamic page for each product
- Help and support
- Checkout

## Components:

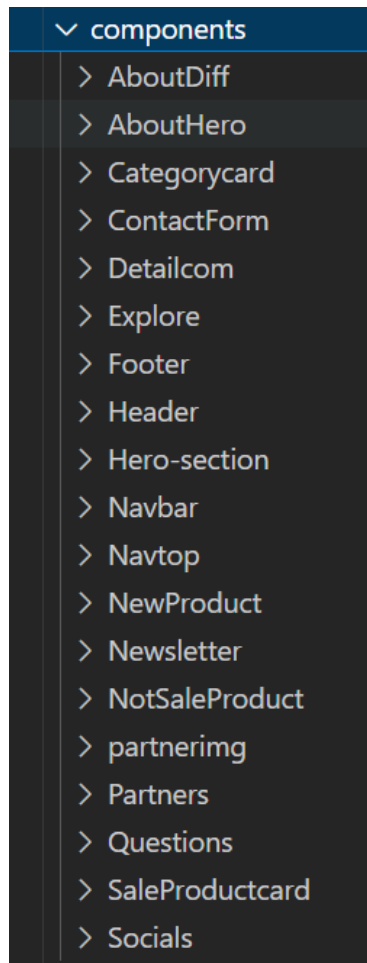
- |                |                 |
|----------------|-----------------|
| • Header       | • AboutHero     |
| • Footer       | • AboutDiff     |
| • Navbar       | • Detail        |
| • Hero section | component       |
| • Partners     | • NoSaleProduct |
| • Category     | • SaleProduct   |
| • NewProduct   | • Contact Form  |
| • Questions    | • Newsletter    |
| • Product List |                 |

# Screenshots of Code and Website Result for Key Components:

Following is the Screenshot of the pages created for comforty:

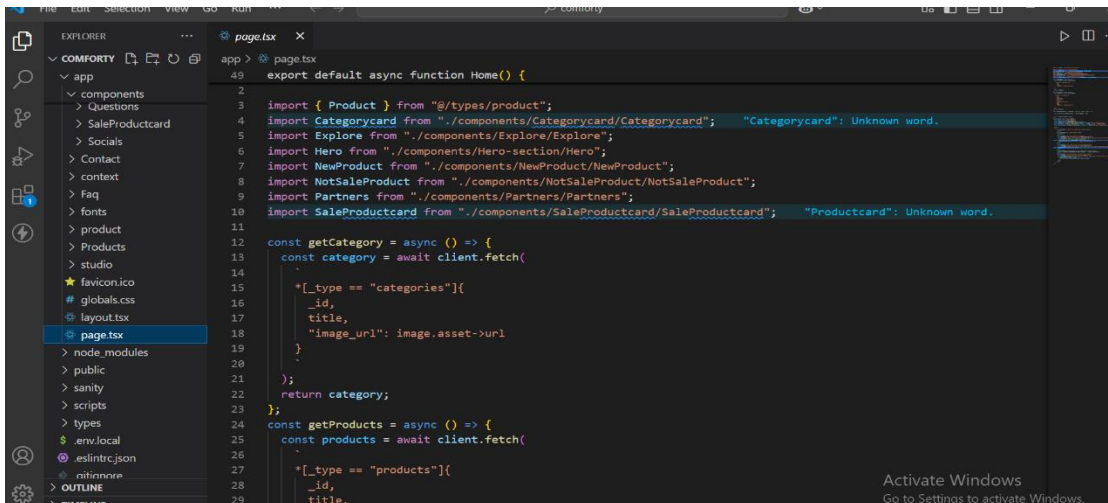


These are the Components Created for Comforty:



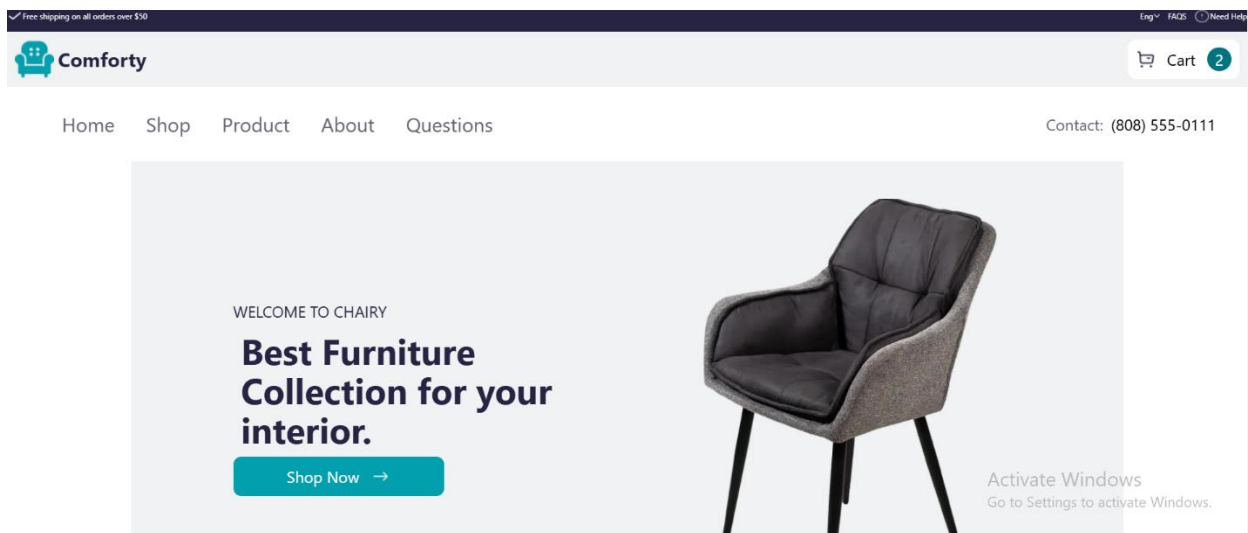
## Code Snippets:

## Home Page:

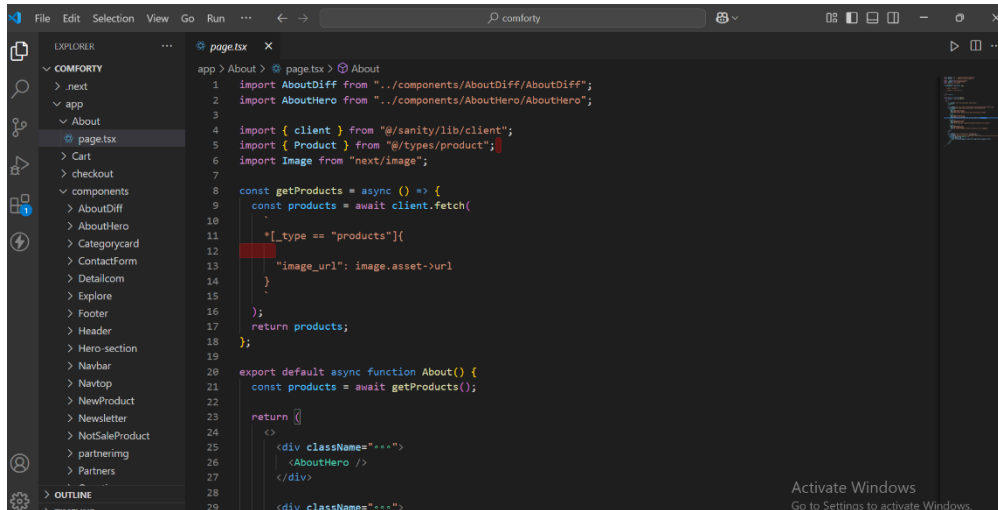


```
49 export default async function Home() {
50
51   2
52   3 import { Product } from "@types/product";
53   4 import Categorycard from "../components/Categorycard/Categorycard";
54   5 import Explore from "../components/Explore/Explore";
55   6 import Hero from "../components/Hero-section/Hero";
56   7 import NewProduct from "../components/NewProduct/NewProduct";
57   8 import NotSaleProduct from "../components/NotSaleProduct/NotSaleProduct";
58   9 import Partners from "../components/Partners/Partners";
59  10 import SaleProductcard from "../components/SaleProductcard/SaleProductcard";
60
61  11
62  12 const getCategory = async () => {
63    13   const category = await client.fetch(
64      14     {
65      15       [_type == "categories"]{
66      16         _id,
67      17         title,
68      18         "image_url": image.asset->url
69      19       }
70      20     };
71    21   };
72    22   return category;
73    23   };
74  24   const getProducts = async () => {
75    25   const products = await client.fetch(
76      26     {
77      27       [_type == "products"]{
78      28         _id,
79      29         title,
```

## Website Result:



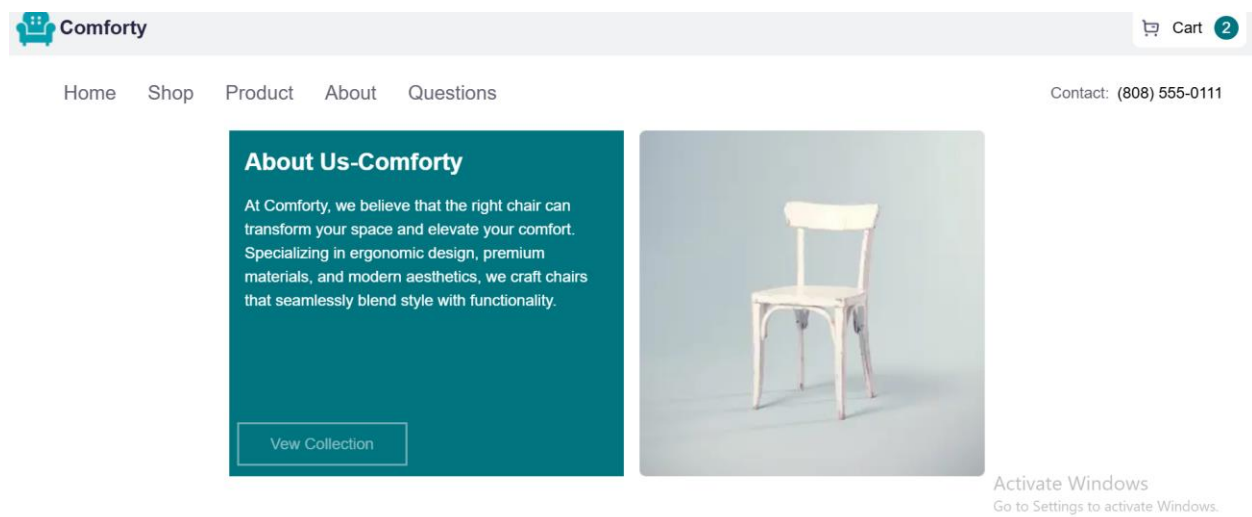
## About Page:



The screenshot shows a code editor with a file explorer on the left. The file explorer shows a project structure for 'COMFORTY' with folders like 'next', 'app', 'components', and 'pages'. The 'pages' folder is expanded, showing 'page.tsx' selected. The code in 'page.tsx' is as follows:

```
1 import AboutDiff from "../components/AboutDiff/AboutDiff";
2 import AboutHero from "../components/AboutHero/AboutHero";
3
4 import { client } from "@sanity/lib/client";
5 import { Product } from "@types/product";
6 import Image from "next/image";
7
8 const getProducts = async () => {
9   const products = await client.fetch(
10     `*[_type == "products"]{
11       "image_url": image.asset->url
12     }
13   `);
14   return products;
15 };
16
17 export default async function About() {
18   const products = await getProducts();
19
20   return (
21     <div className="***">
22       <AboutHero />
23     </div>
24   );
25 }
```

## Website Result:



### Product Listing:

File Edit Selection View Go Run ...

EXPLORER

- COMFORTY
  - app
    - components
      - Questions
      - SaleProductcard
      - Socials
      - Contact
      - context
      - Faq
      - fonts
      - product
      - Products
        - page.tsx
        - studio
      - faviconico
      - globals.css
      - layout.tsx
      - page.tsx
      - node\_modules
      - public
      - sanity
      - scripts
      - types
      - .env.local

page.tsx

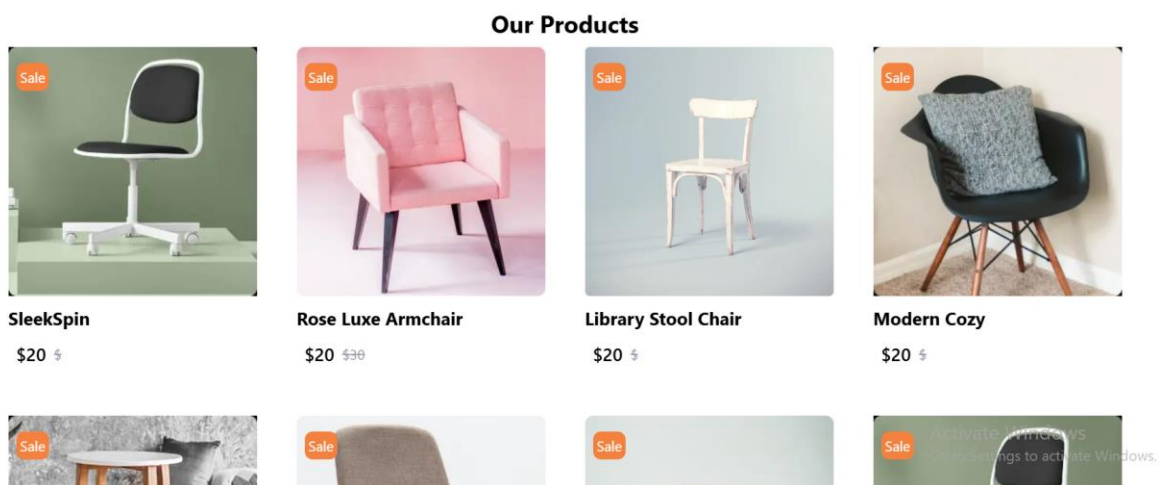
```

app > Products > page.tsx > ...
8  const getProducts = async () => {
9    return products;
10 };
11
12 export default async function Products() {
13
14   const products = await getProducts();
15
16   return (
17     <div className="">
18       <h1 className="">Our Products</h1>
19       <div className="">
20         {products.map((product: Product) => (
21           <div key={product._id} className="">
22
23             <div className="">
24               <span className="">
25                 Sale
26               </span>
27
28               <Link href={`/product/${product._id}`}>
29                 <Image
30                   src={product.image_url}
31                   alt={product.title || "Product Image"}
32                   width={250}
33                   height={100}
34                   className=""
35                 />
36               </Link>
37             </div>
38           </div>
39         ))}
40       </div>
41     </div>
42   );
43 }
44
45
46
47
48
49
50
51
52

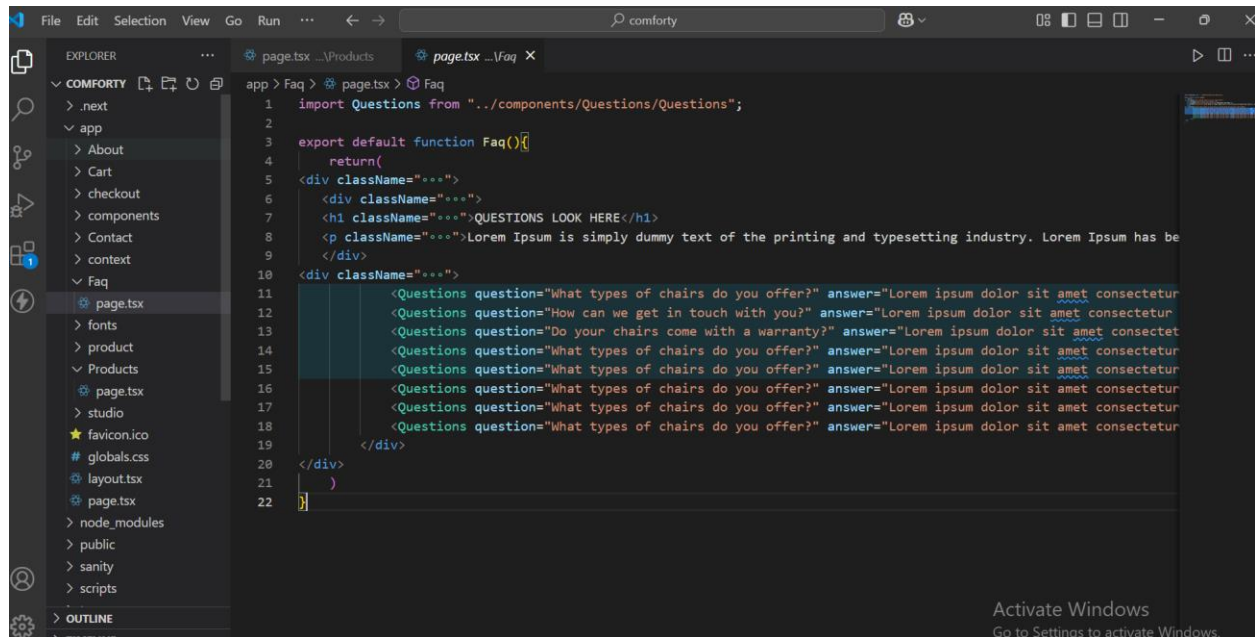
```

Activate Windows  
Go to Settings to activate Windows.

### Website Result:

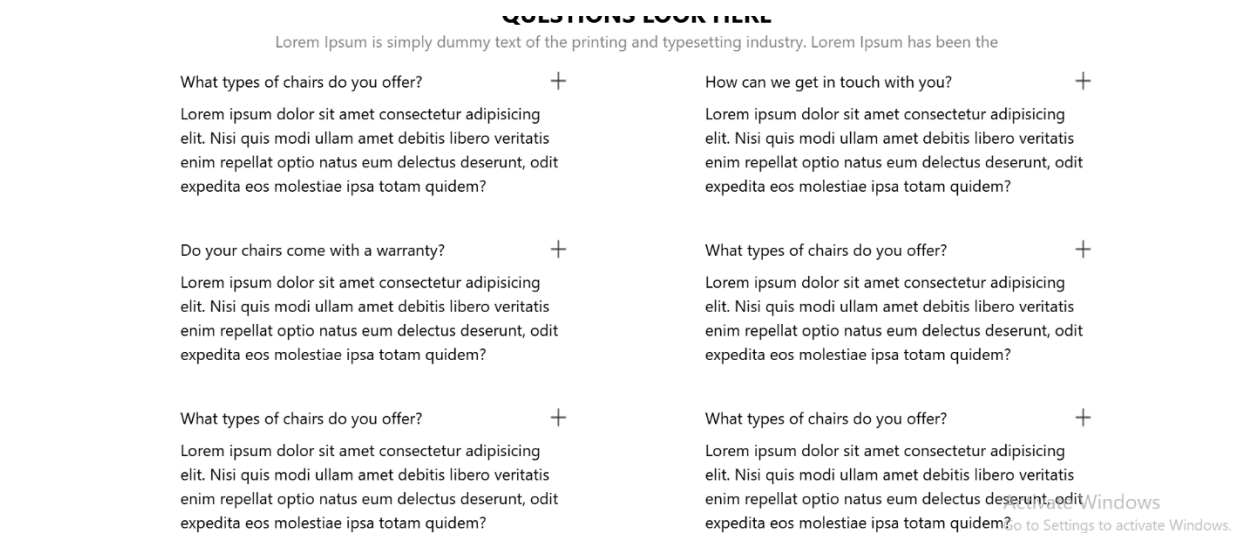


## Questions Page:



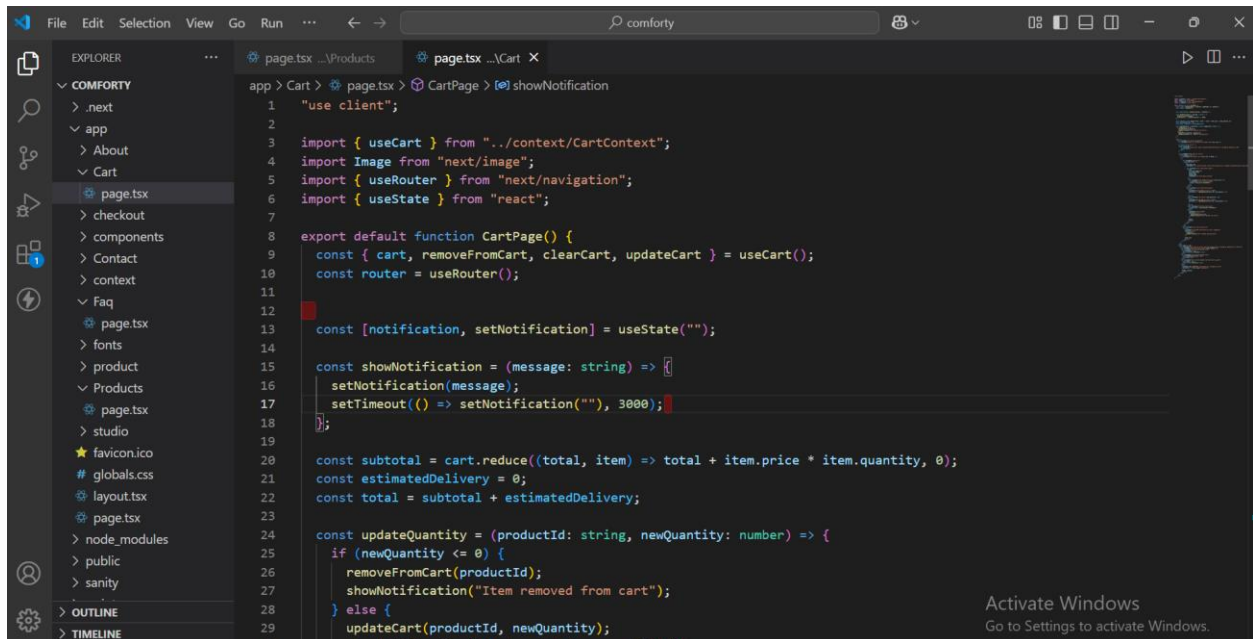
```
1 import Questions from "../components/Questions/Questions";
2
3 export default function Faq() {
4   return (
5     <div className="">
6       <div className="">
7         <h1 className="">QUESTIONS LOOK HERE</h1>
8         <p className="">Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has be
9       </div>
10      <div className="">
11        <Questions question="What types of chairs do you offer?" answer="Lorem ipsum dolor sit amet consectetur
12        <Questions question="How can we get in touch with you?" answer="Lorem ipsum dolor sit amet consectetur
13        <Questions question="Do your chairs come with a warranty?" answer="Lorem ipsum dolor sit amet consectet
14        <Questions question="What types of chairs do you offer?" answer="Lorem ipsum dolor sit amet consectetur
15        <Questions question="What types of chairs do you offer?" answer="Lorem ipsum dolor sit amet consectetur
16        <Questions question="What types of chairs do you offer?" answer="Lorem ipsum dolor sit amet consectetur
17        <Questions question="What types of chairs do you offer?" answer="Lorem ipsum dolor sit amet consectetur
18        <Questions question="What types of chairs do you offer?" answer="Lorem ipsum dolor sit amet consectetur
19      </div>
20    </div>
21  )
22 }
```

## Website Result:





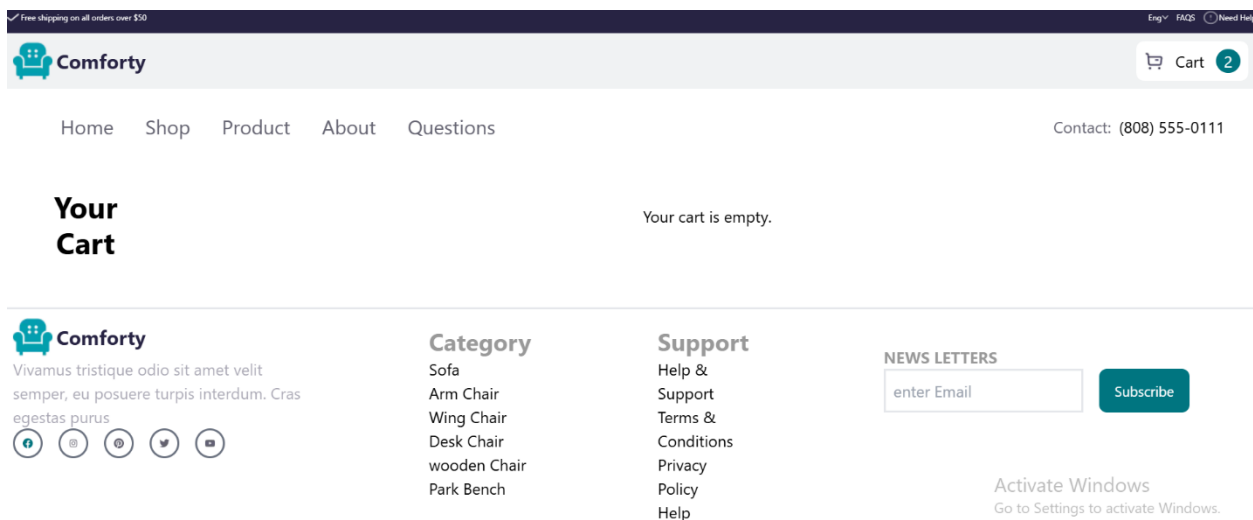
## Cart Page:



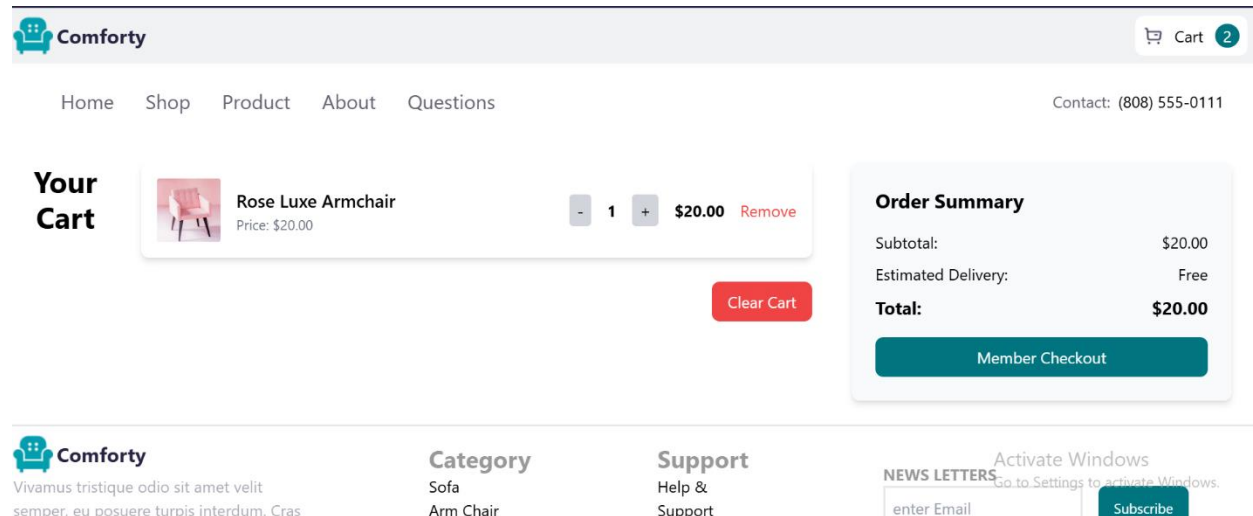
```
1 "use client";
2
3 import { useCart } from "../context/CartContext";
4 import Image from "next/image";
5 import { useRouter } from "next/navigation";
6 import { useState } from "react";
7
8 export default function CartPage() {
9   const { cart, removeFromCart, clearCart, updateCart } = useCart();
10   const router = useRouter();
11
12   const [notification, setNotification] = useState("");
13
14   const showNotification = (message: string) => {
15     setNotification(message);
16     setTimeout(() => setNotification("", 3000);
17   };
18
19   const subtotal = cart.reduce((total, item) => total + item.price * item.quantity, 0);
20   const estimatedDelivery = 0;
21   const total = subtotal + estimatedDelivery;
22
23   const updateQuantity = (productId: string, newQuantity: number) => {
24     if (newQuantity <= 0) {
25       removeFromCart(productId);
26       showNotification("Item removed from cart");
27     } else {
28       updateCart(productId, newQuantity);
29     }
30   };
31 }
```

## Website Result:

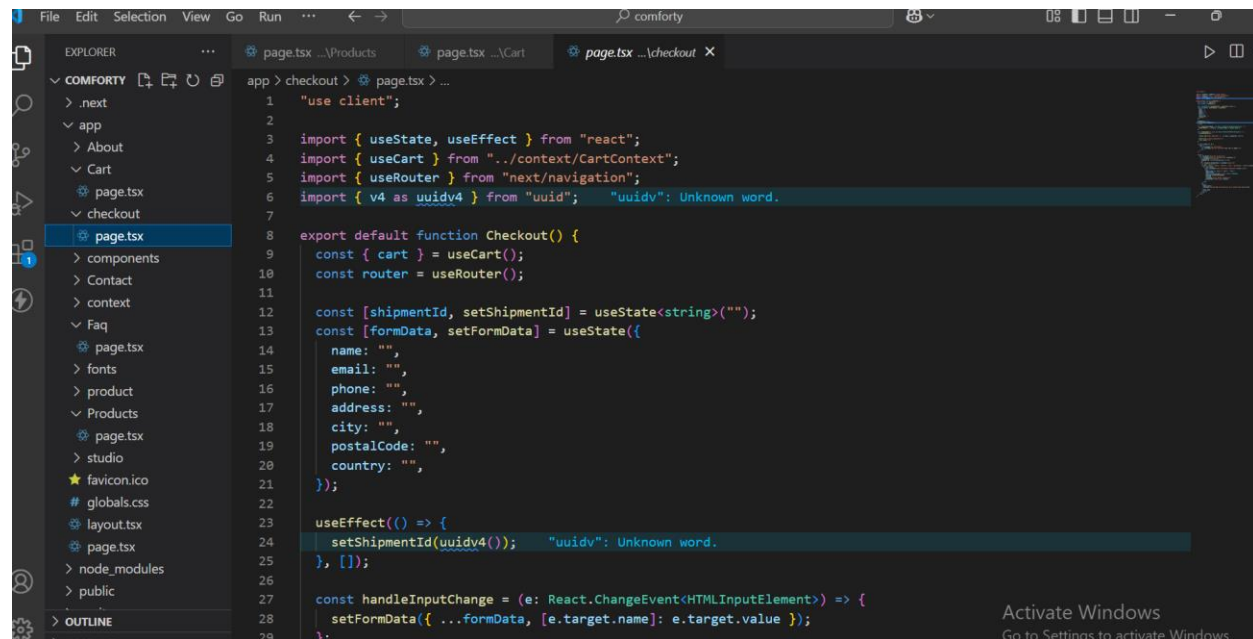
### When Empty:



## When a product is added:



## Checkout Page:



## Website Result:

### Checkout

Shipment ID: 7c6f522e-bc84-4e53-af21-6c6e5d89fa71

Name

Email

Phone

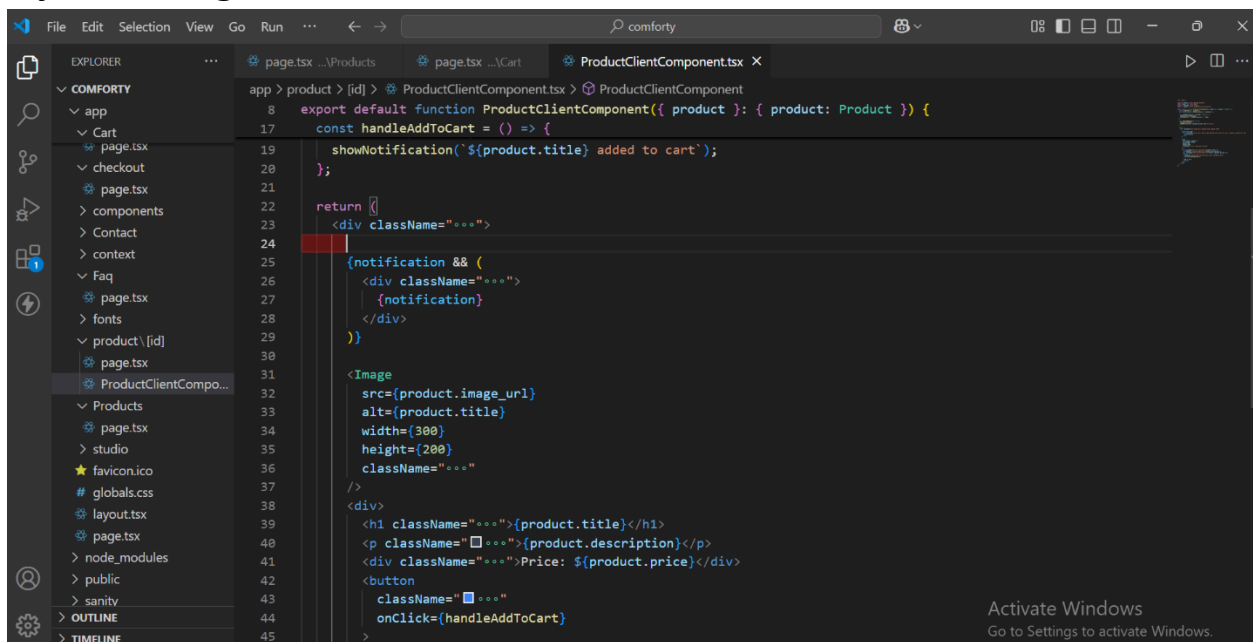
Address

City

PostalCode

Activate Windows  
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## Dynamic Page for Each Product:



```
app > product > [id] > ProductClientComponent.tsx > ProductClientComponent
8  export default function ProductClientComponent({ product }: { product: Product }) {
17  const handleAddToCart = () => {
19    showNotification(`${product.title} added to cart`);
20  };
21
22  return (
23    <div className="">
24
25      {notification && (
26        <div className="">
27          {notification}
28        </div>
29      )}
30
31    <Image
32      src={product.image_url}
33      alt={product.title}
34      width={300}
35      height={200}
36      className=""
37    />
38    <div>
39      <h1 className="">{product.title}</h1>
40      <p className="">{product.description}</p>
41      <div className="">Price: ${product.price}</div>
42      <button
43        className=""
44        onClick={handleAddToCart}
45      >
```

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## Website Result:

[Home](#) [Shop](#) [Product](#) [About](#) [Questions](#)

Contact: (808) 555-0111



### SleekSpin

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam tincidunt erat enim. Lorem ipsum dolor sit amet, consectetur adipiscing

**Price: \$20**

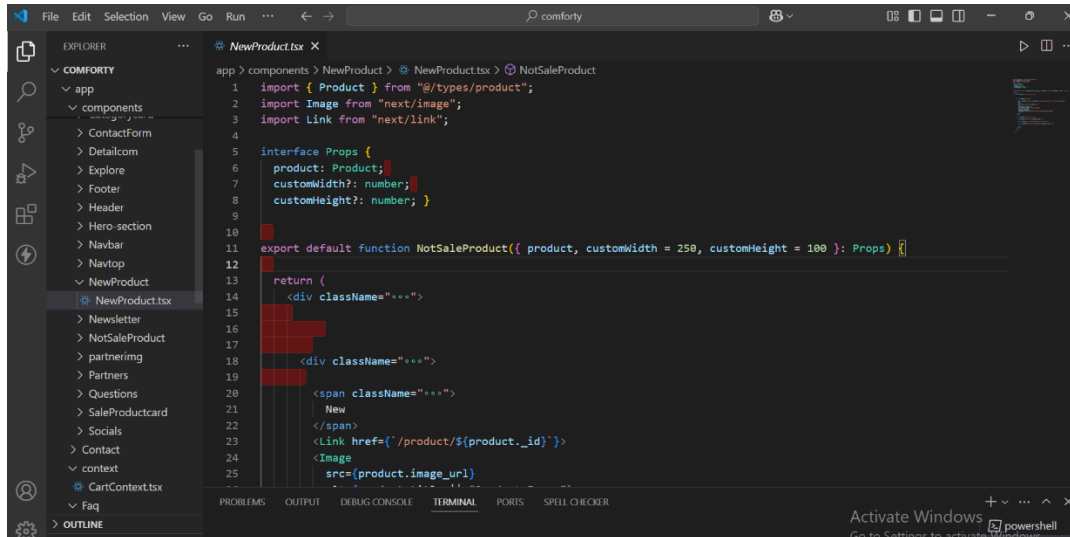
[Add to Cart](#)

Activate Windows

# Screenshots of Code and Website Result for Key Components

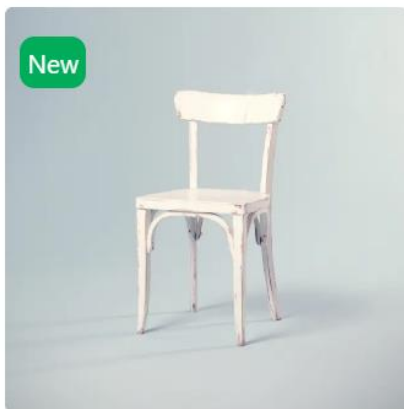
newProduct:

Code snippet:



```
1 import { Product } from "@types/product";
2 import Image from "next/image";
3 import Link from "next/link";
4
5 interface Props {
6   product: Product;
7   customWidth?: number;
8   customHeight?: number;
9 }
10
11 export default function NotSaleProduct({ product, customWidth = 250, customHeight = 100 }: Props) {
12
13   return (
14     <div className="">
15
16
17
18     <div className="">
19
20       <span className="">
21         New
22       </span>
23       <Link href={`/product/${product._id}`>
24       <Image
25         src={product.image_url}
```

Website result:



**Library Stool Chair**

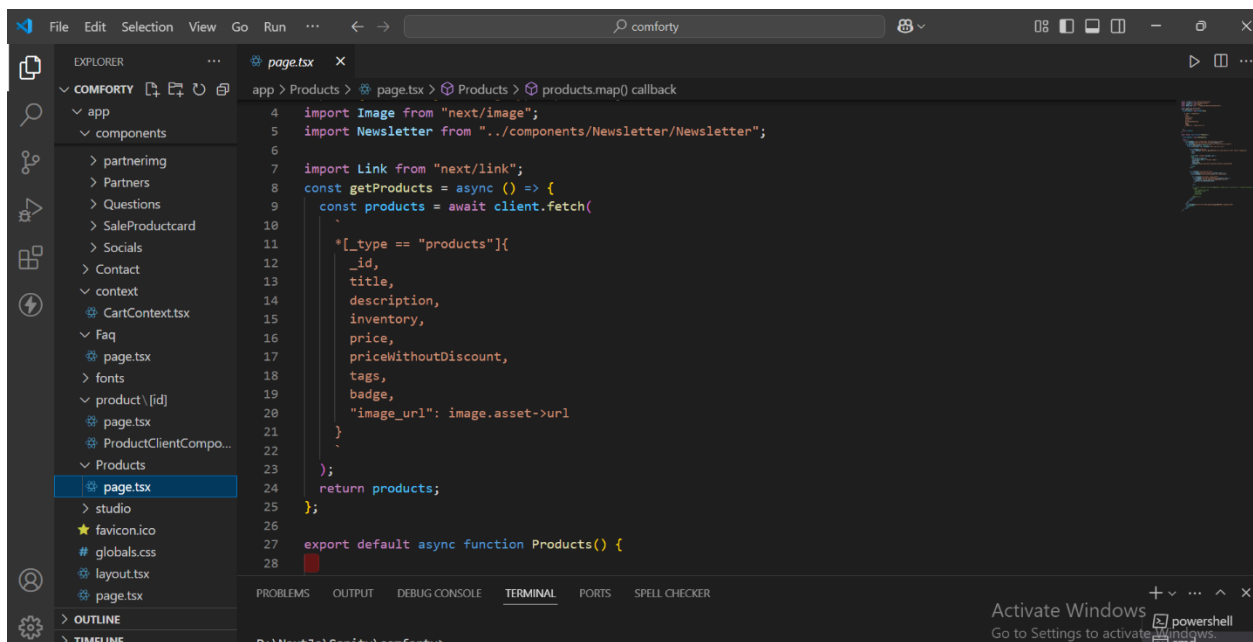
**\$20**

Similar to my product card I created card for products that were not on sale and etc

## Products:

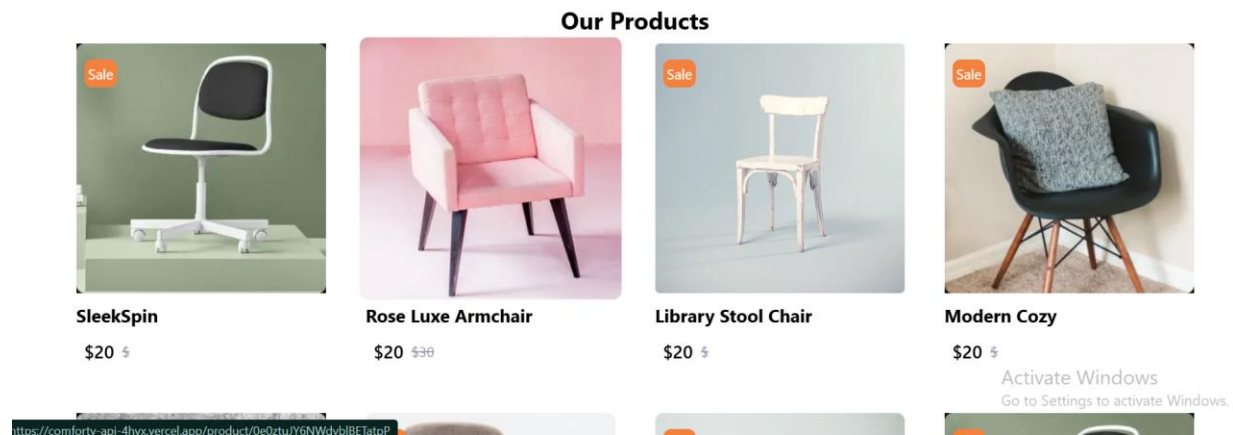
For product listing created a products that fetch data from sanity and used map function to show data on my website.

## Code snippet:



```
4 import Image from "next/image";
5 import Newsletter from "../components/Newsletter/Newsletter";
6
7 import Link from "next/link";
8 const getProducts = async () => {
9   const products = await client.fetch(
10
11     `*[ _type == "products" ] {
12       _id,
13       title,
14       description,
15       inventory,
16       price,
17       priceWithoutDiscount,
18       tags,
19       badge,
20       "image_url": image.asset->url
21     }`
22   );
23 };
24 return products;
25 };
26
27 export default async function Products() {
28
```

## Website result:



## Challenges Faced during implementation:

### Fetching data from sanity:

The first problem I faced was how to fetch data from sanity then I learned about vision in our studio and how to generate data using queries.

### Showing data on different pages:

Second problem I faced was how do I show data on multiple pages after I fetched the data from sanity. After searching and using chatgpt I

was able to pass data between pages and including dynamic page for each product.

### **Cart management:**

The third issue I faced was Cart. After creating cart component importing specific data of a product was a bit challenging but after some time I was able to make the cart functionality work.

### **Best Practice:**

1. The first best practice that I have done often in this project is to create usable components
2. Second is I wrote clean and manageable code that if any other developer opens my code he/she can easy understand the code.
3. Minimize the size of image for better performance of website.



1. Cross browser compatibility and responsive design for smooth user experience.