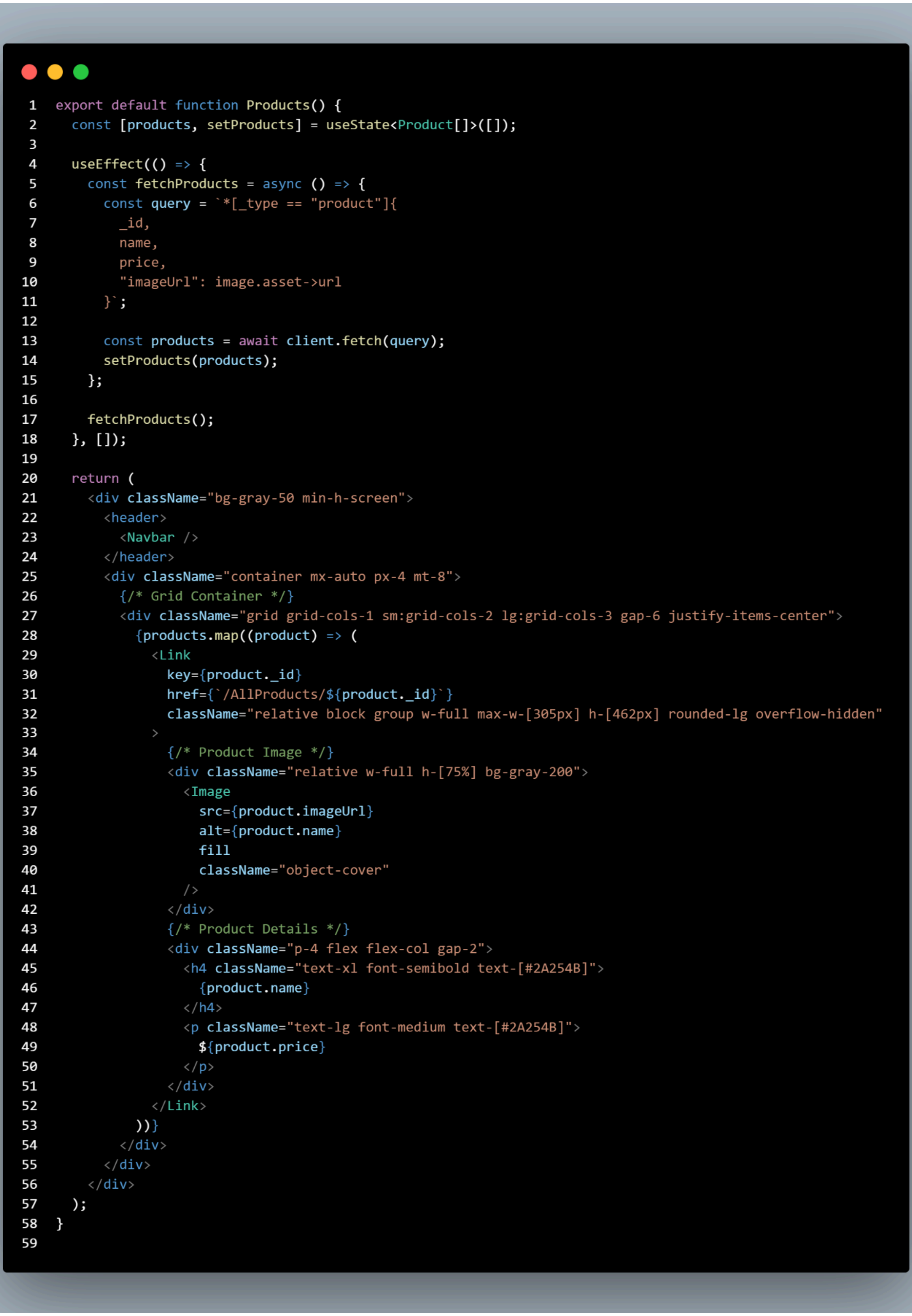
Building Dynamic Frontend Components For Marketplace:-

Built Components:

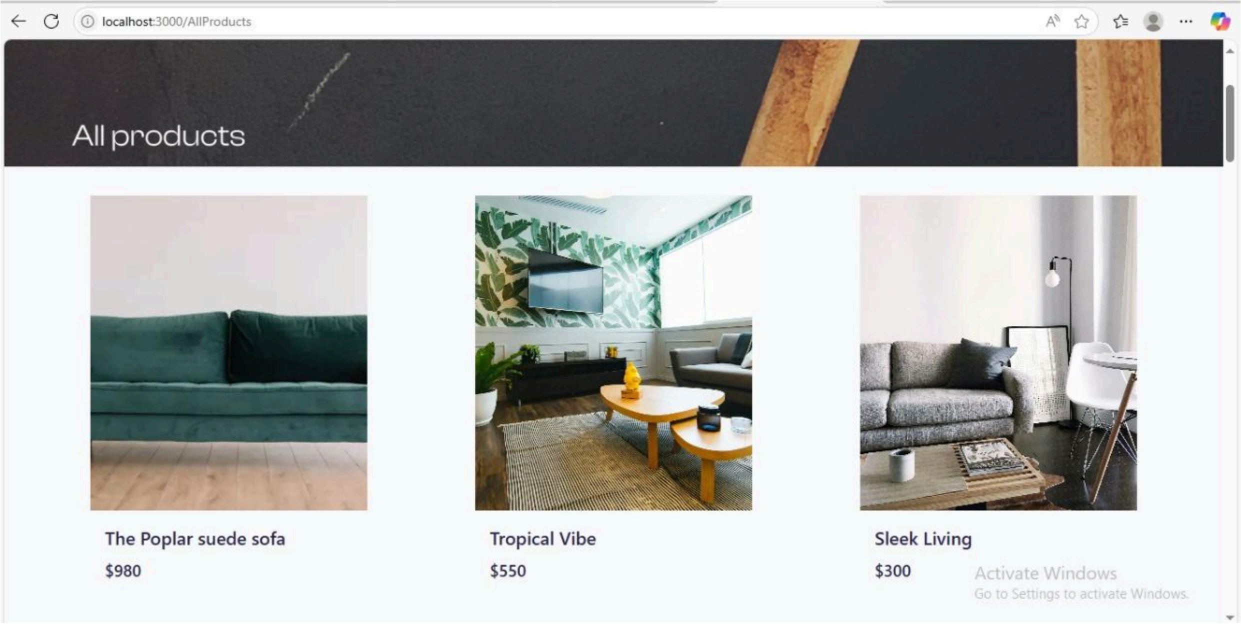
1. Product Listing Component:

- Dynamically fetch and display product data from Sanity CMS or API.



```
export default function Products() {
  const [products, setProducts] = useState<Product[]>([]);

  useEffect(() => {
    const fetchProducts = async () => {
      const query = `*[_type == "product"]{
        _id,
        name,
        price,
        "imageUrl": image.asset->url
      }`;

      const products = await client.fetch(query);
      setProducts(products);
    };

    fetchProducts();
  }, []);

  return (
    <div className="bg-gray-50 min-h-screen">
      <header>
        <Navbar />
      </header>
      <div className="container mx-auto px-4 mt-8">
        {/* Grid Container */}
        <div className="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-3 gap-6 justify-items-center">
          {products.map((product) => (
            <Link
              key={product._id}
              href={`/AllProducts/${product._id}`}
              className="relative block group w-full max-w-[305px] h-[462px] rounded-lg overflow-hidden"
            >
              {/* Product Image */}
              <div className="relative w-full h-[75%] bg-gray-200">
                <Image
                  src={product.imageUrl}
                  alt={product.name}
                  fill
                  className="object-cover"
                />
              </div>
              {/* Product Details */}
              <div className="p-4 flex flex-col gap-2">
                <h4 className="text-xl font-semibold text-[#2A254B]">
                  {product.name}
                </h4>
                <p className="text-lg font-medium text-[#2A254B]">
                  ${product.price}
                </p>
              </div>
            </Link>
          ))}
        </div>
      </div>
    </div>
  );
}
```

- Display product names and prices in a clean, responsive grid layout.


localhost:3000/AllProducts
All products
Activate Windows
Go to Settings to activate Windows.

The Poplar suede sofa

$980

Tropical Vibe

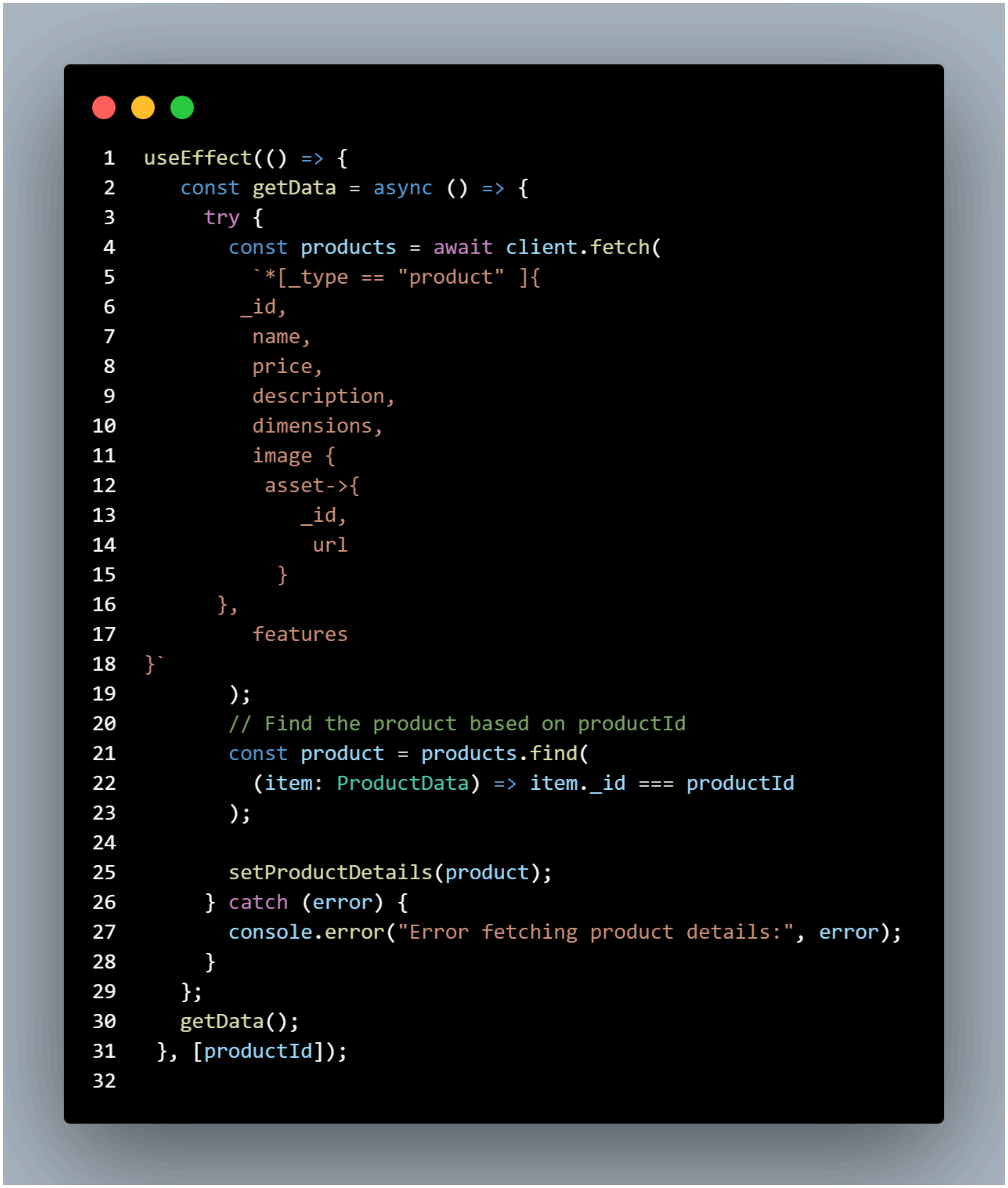
$550

Sleek Living

$300

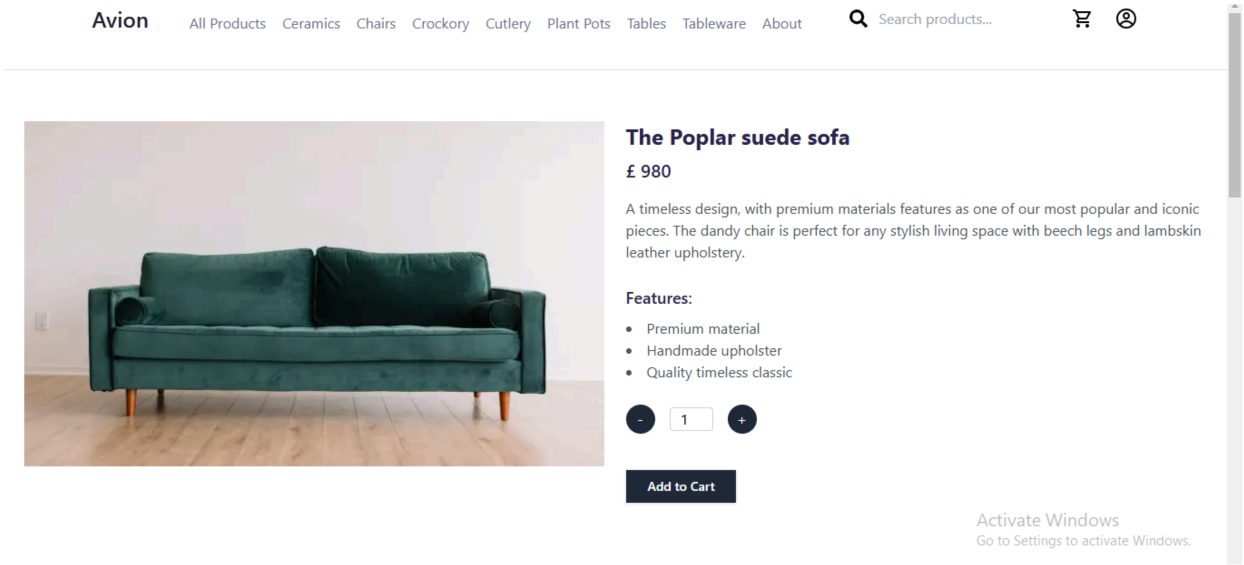
2. Product Detail Component:

- Use dynamic routing to render individual product details, including name, price, description, and additional data.



```
useEffect(() => {
   const getData = async () => {
     try {
       const products = await client.fetch(
         `*[_type == "product" ]{
        _id,
         name,
         price,
         description,
         dimensions,
         image {
          asset->{
             _id,
              url
           }
      },
         features
}`
       );
       // Find the product based on productId
       const product = products.find(
         (item: ProductData) => item._id === productId
       );

       setProductDetails(product);
     } catch (error) {
       console.error("Error fetching product details:", error);
     }
   };
   getData();
 }, [productId]);
```

- Provide an "Add to Cart" button with functionality.



The Poplar suede sofa

£ 980

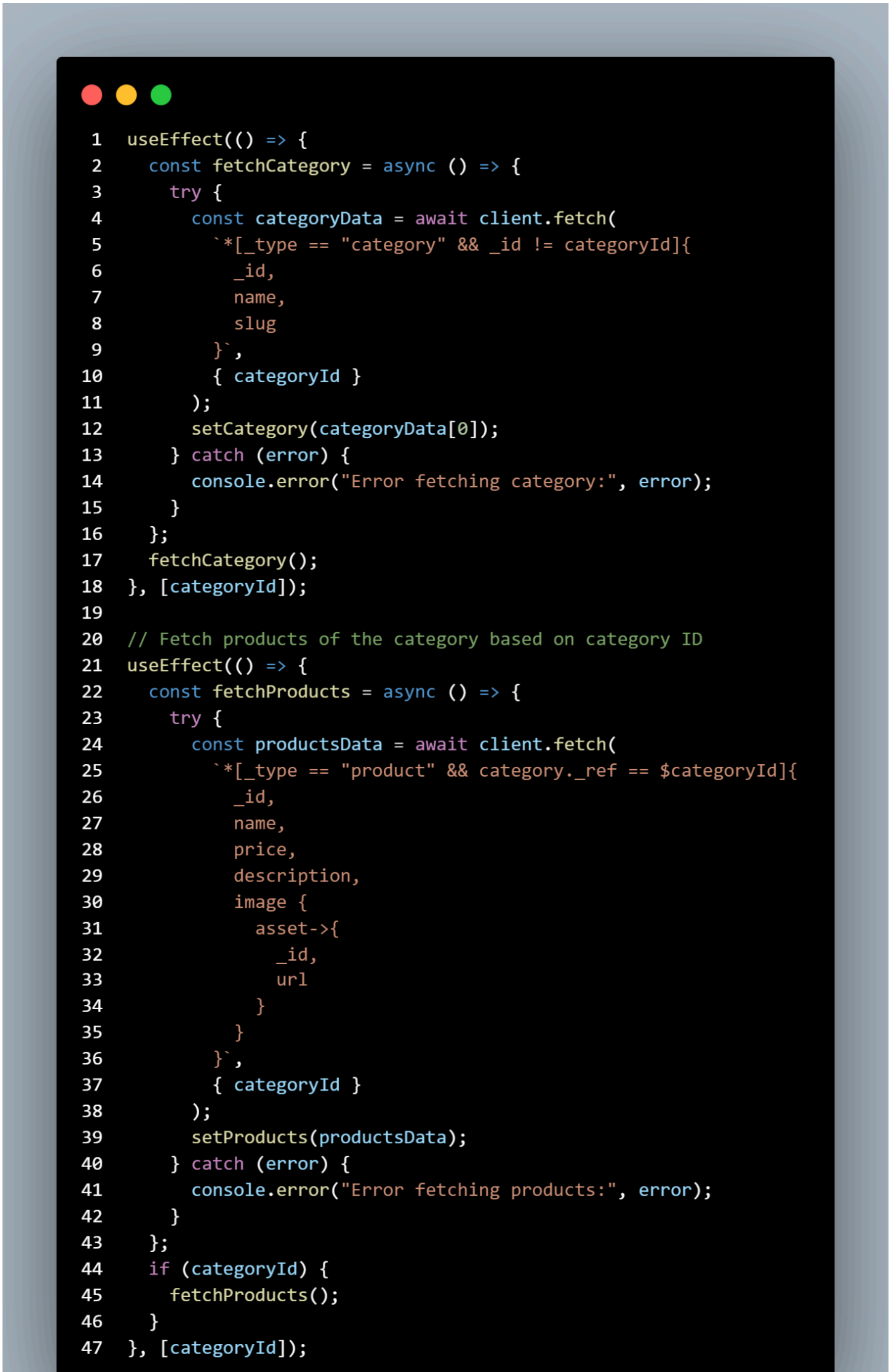
A timeless design, with premium materials features as one of our most popular and iconic pieces. The dandy chair is perfect for any stylish living space with beech legs and lambskin leather upholstery.

Features:

- Premium material
- Handmade upholster
- Quality timeless classic

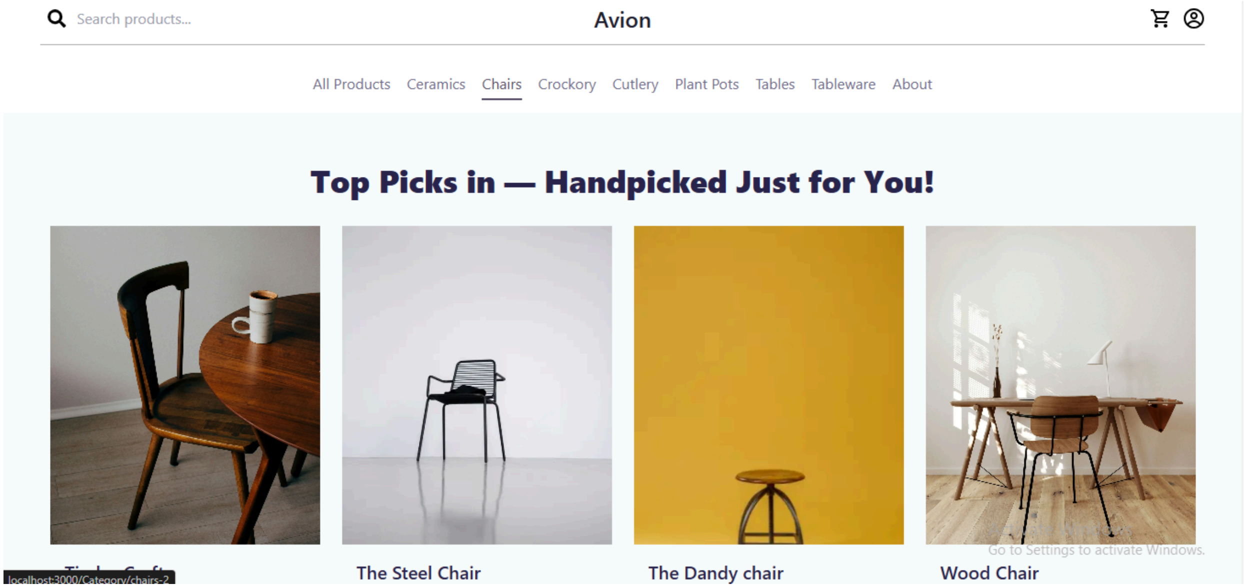
3. Category Component:

- Fetch categories dynamically from the data source.



```javascript
useEffect(() => {
  const fetchCategory = async () => {
    try {
      const categoryData = await client.fetch(
        `*[_type == "category" && _id != categoryId]{
          _id,
          name,
          slug
        }`,
        { categoryId }
      );
      setCategory(categoryData[0]);
    } catch (error) {
      console.error("Error fetching category:", error);
    }
  };
  fetchCategory();
}, [categoryId]);

// Fetch products of the category based on category ID
useEffect(() => {
  const fetchProducts = async () => {
    try {
      const productsData = await client.fetch(
        `*[_type == "product" && category._ref == $categoryId]{
          _id,
          name,
          price,
          description,
          image {
            asset->{
              _id,
              url
            }
          }
        }`,
        { categoryId }
      );
      setProducts(productsData);
    } catch (error) {
      console.error("Error fetching products:", error);
    }
  };
  if (categoryId) {
    fetchProducts();
  }
}, [categoryId]);
```

- Allow filtering of products by selected categories.

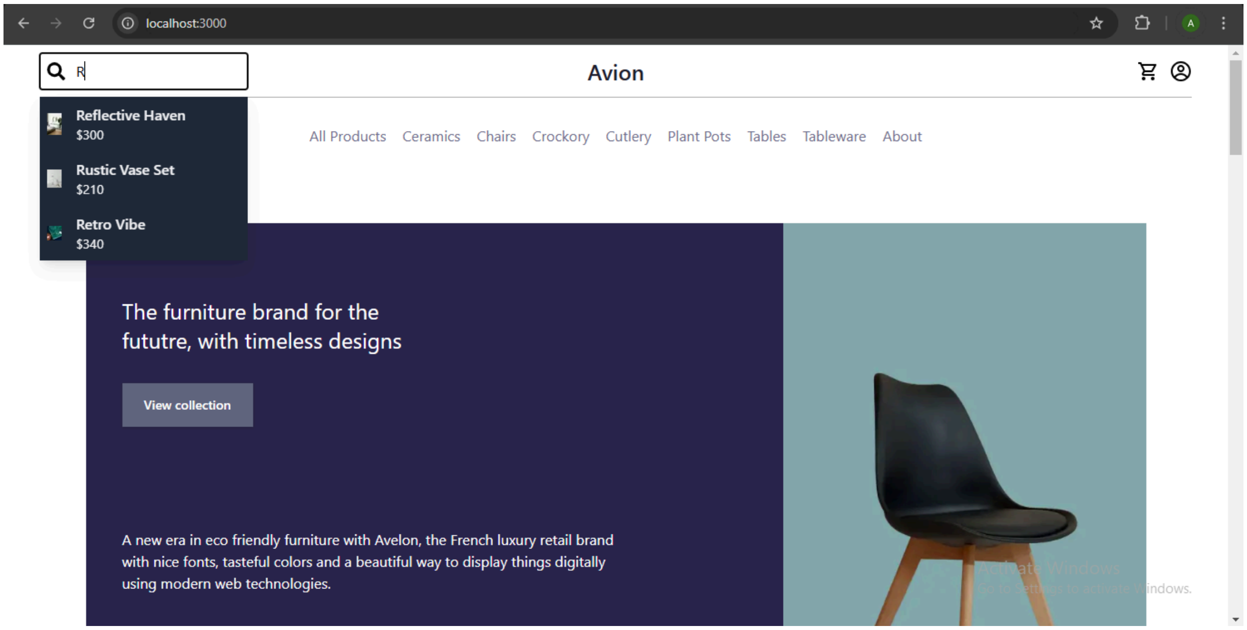


Top Picks in — Handpicked Just for You!

The Steel Chair
The Dandy chair
Wood Chair
localhost:3000/Category/chairs-2
Go to Settings to activate Windows.

4. Advanced Search Bar:

- Implement faceted search to combine multiple filters and provide precise results.



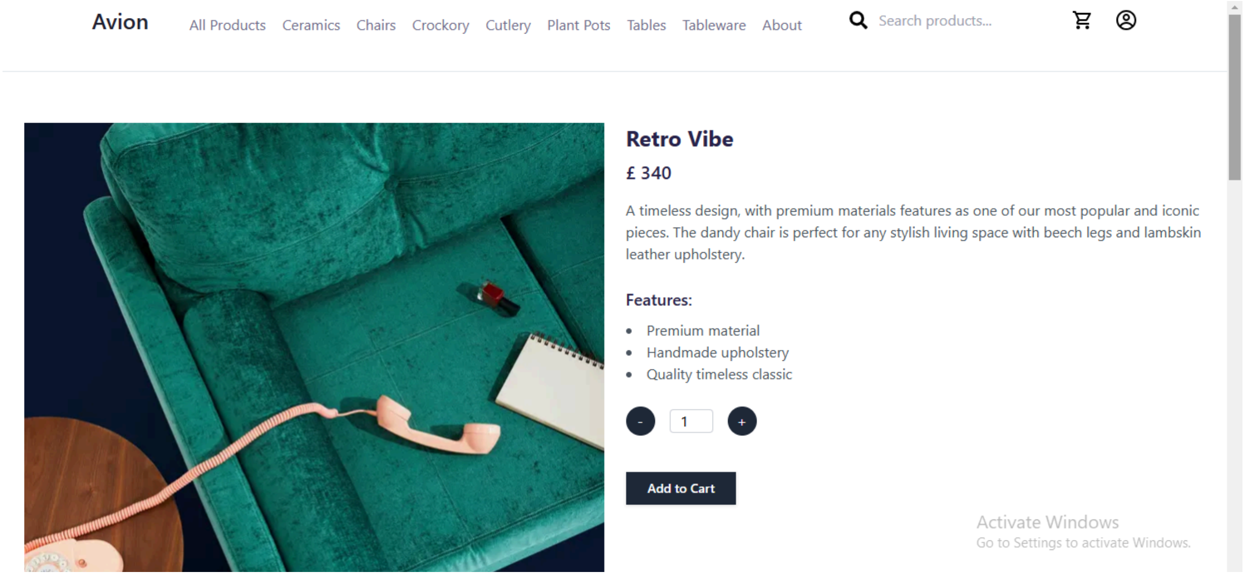
Reflective Haven
$300

Rustic Vase Set
$210

Retro Vibe
$340

The furniture brand for the
fututre, with timeless designs

A new era in eco friendly furniture with Avelon, the French luxury retail brand with nice fonts, tasteful colors and a beautiful way to display things digitally using modern web technologies.



Retro Vibe

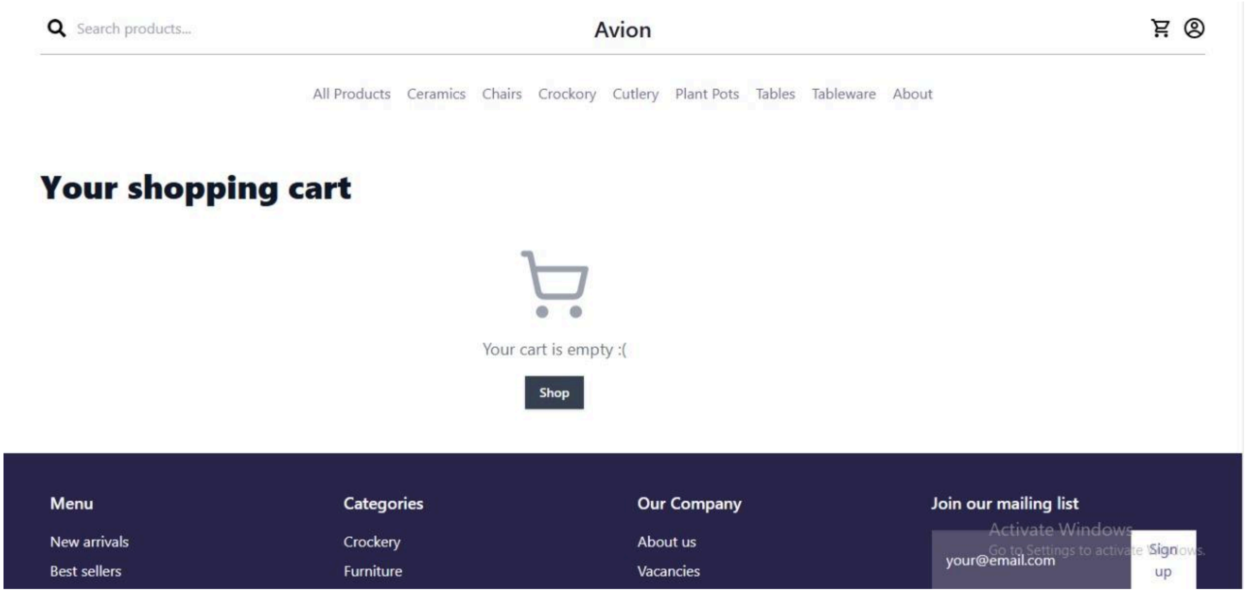
£ 340

A timeless design, with premium materials features as one of our most popular and iconic pieces. The dandy chair is perfect for any stylish living space with beech legs and lambskin leather upholstery.

Features:

- Premium material
- Handmade upholstery
- Quality timeless classic

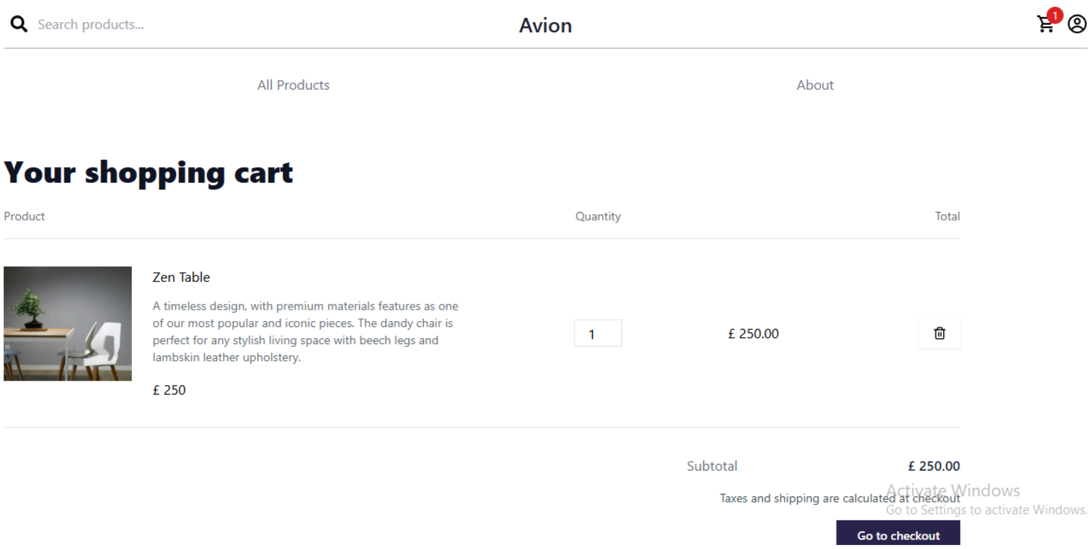
5. Cart Component:



Your shopping cart

Your cart is empty :(

- Enable users to view and manage their cart.



Search products...

Avion

All Products

About

Your shopping cart

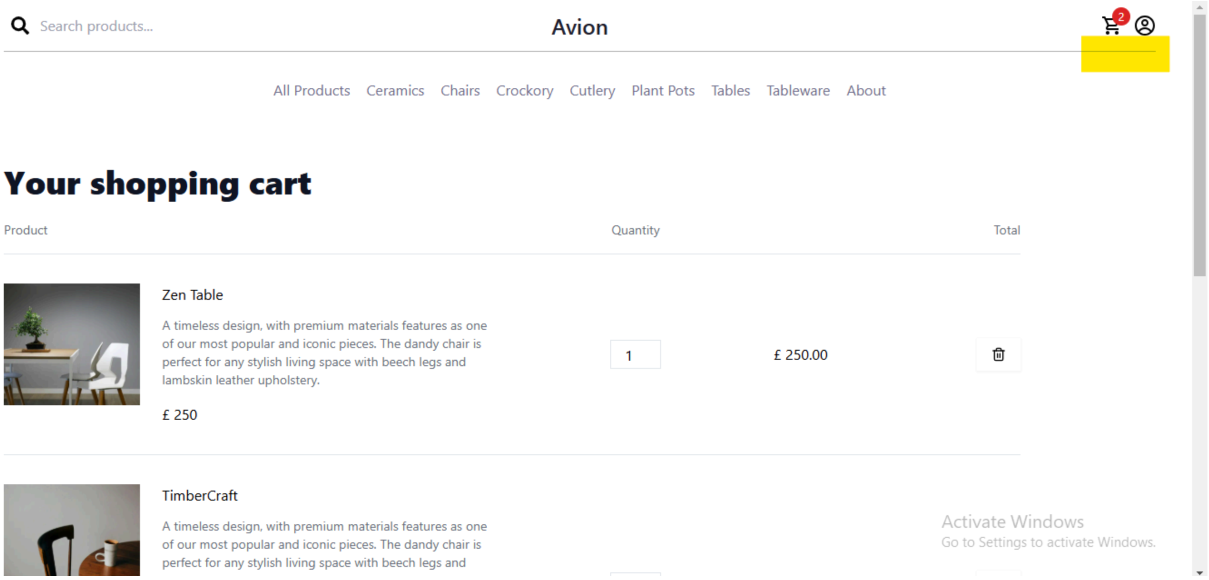
Product	Quantity	Total	
Zen Table A timeless design, with premium materials features as one of our most popular and iconic pieces. The dandy chair is perfect for any stylish living space with beech legs and lambskin leather upholstery. £ 250	1	£ 250.00	

Subtotal £ 250.00

Taxes and shipping are calculated at checkout

Go to checkout

- Include features like updating quantities and removing items.



Search products...

Avion

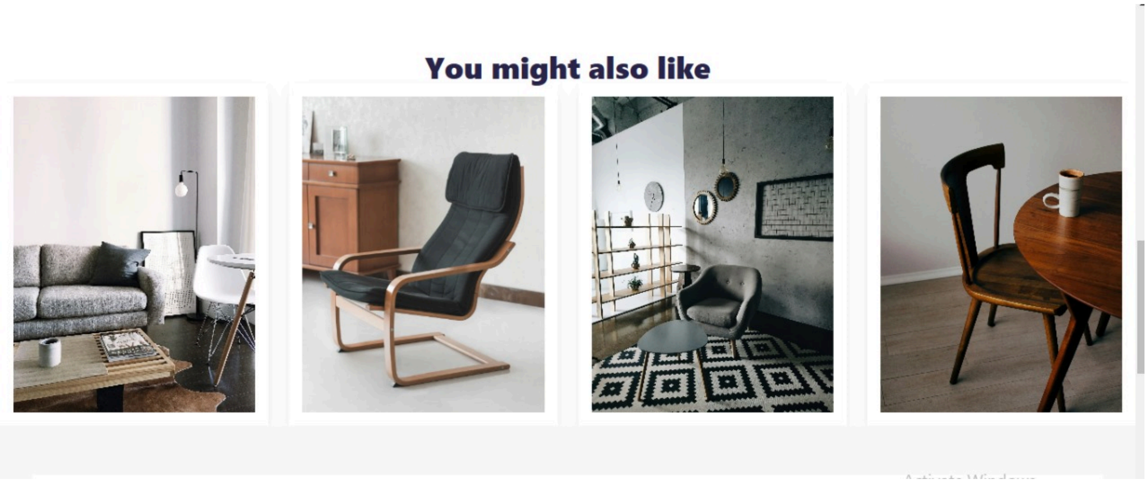
All Products Ceramics Chairs Crockory Cutlery Plant Pots Tables Tableware About

Your shopping cart

Product	Quantity	Total	
Zen Table A timeless design, with premium materials features as one of our most popular and iconic pieces. The dandy chair is perfect for any stylish living space with beech legs and lambskin leather upholstery. £ 250	1	£ 250.00	
TimberCraft A timeless design, with premium materials features as one of our most popular and iconic pieces. The dandy chair is perfect for any stylish living space with beech legs and			

6. Related Products Component:

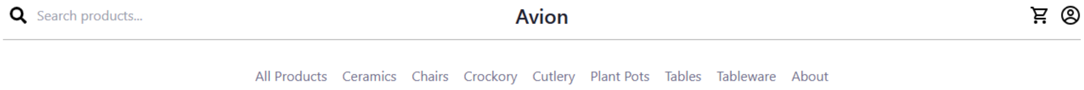
- Display similar products based on tags or categories on product detail pages.



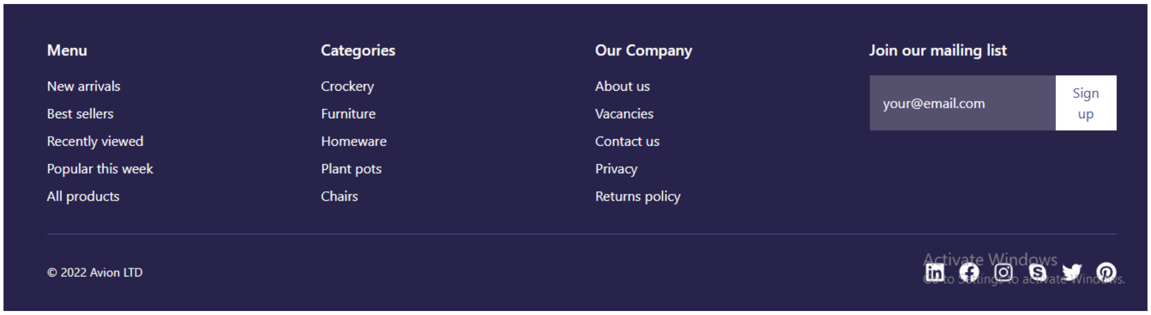
You might also like

7. Footer and Header Components:

- Consistent navigation and branding elements.



- Include links to Home, About, Contact, and other key pages.
- Ensure responsiveness and accessibility.



Menu

New arrivals

Best sellers

Recently viewed

Popular this week

All products

Categories

Crockery

Furniture

Homeware

Plant pots

Chairs

Our Company

About us

Vacancies

Contact us

Privacy

Returns policy

Join our mailing list

your@email.com | Sign up

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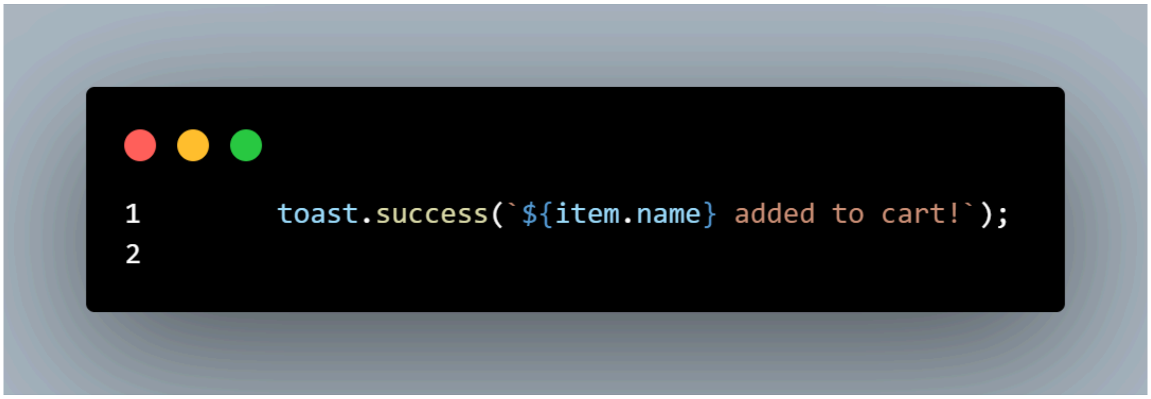
8. Notifications Component:

- Notify users of actions like adding to the cart or search errors.



```javascript
        toast.success(`${item.name} added to cart!`);

```

Professional Practices Emphasized

Feature	Details
✅ **Dynamic Product Listing Page**	Fetch data from Sanity CMS or API using GROQ or fetch queries. Render products dynamically with reusable `ProductCard` components.
✅ **Product Detail Pages**	Create dynamic routes (e.g., `/product/[id]`). Fetch and display product-specific details to provide users with essential product information.
✅ **Search Bar**	Implement stateful search functionality to filter products by name or tags. Limit suggestions to 4-5 results for a clean and focused user experience.

✅ **Category Filters**

Fetch category data dynamically and allow filtering to help users narrow down their preferences effectively.

✅ **Related Products**

Suggest products with similar tags/categories on detail pages to enhance user engagement and discovery.

✅ **Cart Component**

Provide cart management functionalities like adding, removing, and updating products for a smooth shopping experience.

✅ **Styling**

Use Tailwind CSS or custom styles to ensure responsive layouts and a visually appealing interface across devices.

✅ **Reusable Components**

Ensure components are modular and reusable for better scalability and maintainability.

✅ **Notifications Component**

Use toast notifications to provide instant feedback for actions such as adding to cart, removing items, or successful checkout.