Day 4 - Dynamic Frontend Components - Comforty

Overview:

Comforty is a fully functional e-commerce platform focused on selling chairs, developed using Next.js, Sanity, and Tailwind CSS. It offers a seamless shopping experience with features like a product catalog, detailed product pages, shopping cart, and secure checkout. The platform is responsive, ensuring smooth performance across devices. With an intuitive interface and fast load times, Comforty delivers a modern, user-friendly solution for purchasing chairs online.

1. Functional Deliverables:

♣ Product Listing with Dynamic Data:

All Products



Black Wooden Chair \$500.00



\$20.00



Library Stool Chair \$20.00



Scandi Dip Set \$40.00



Rose Luxe Armchair \$20.00



Library Stool Chair \$20.00



Scandi Dip Set



Ivory Charm \$20.00

♣ Product Detail Page:



Citrus Edge

\$20.00 USD

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Quantity: - 1 +

📜 Add To Cart

♣ Category Filter:



Products in "Wooden Chair"



\$500.00



Library Stool Chair \$20.00



Scandi Dip Set \$40.00



Library Stool Chair \$20.00



Scandi Dip Set \$40.00



Modern Cozy \$20.00



Modern Cozy \$20.00

♣ Related Products:

Related Products



Black Wooden Chair \$500.00



Citrus Edge \$20.00



Library Stool Chair \$20.00



Rose Luxe Armchair \$20.00



Questions Looks Here

Lorem ipsum is simply dummy text of the printing and type setting industry. Lorem ipsum has been the $$\operatorname{\textsc{the}}$$

What types of chairs do you offer? + How can we get in touch with you?

Do your chairs come with a warranty? + What will be delivered? And When?

Can I try a chair before purchasing? + How do I clean and maintain my Comforty chair?













♣ Pagination:

All Products



\$500.00



lvory Charm \$20.00



Gray Elegance \$8.00



\$30.00



Scandi Dip Set \$40.00



Modern Cozy \$20.00



Library Stool Chair \$20.00



SleekSpin \$20.00







Scandi Dip Set \$40.00



Modern Cozy \$20.00



Library Stool Chair \$20.00



\$20.00



Or Subscribe To The Newsletter	
tanzeel	

2. Code Deliverable:

Product Card:

```
import { useState } from "react'
import Image from "next/image"
import Link from "next/link"
import { ShoppingCart, Heart } from "lucide-react'
import { useCart } from "@/contexts/cart-context"
import { urlFor } from "@/sanity/lib/image"
   id: string
  title: string
  image: string
  isNew?: boolean
  isSale?: boolean
export default function ProductCard({ _id, title, price, image, isNew, isSale }: ProductCardProps) {
  const { addItem } = useCart()
const [isFavorite, setIsFavorite] = useState(false)
  const handleAddToCart = (e: React.MouseEvent) => {
    addItem({ id: _id, title, price, image, quantity: 1 })
  const handleToggleFavorite = (e: React.MouseEvent) => {
    e.preventDefault()
      className="group relative block overflow-hidden rounded-lg transition-all duration-300 hover:shadow
       <div className="aspect-square w-full overflow-hidden">
          src={urlFor(image).url() || "/placeholder.svg"}
           width={500}
          height={500}
           className="h-full w-full object-cover object-center transition-transform duration-300 group-hove
         {isNew && <div className="absolute top-2 left-2 bg-green-500 text-white text-xs px-2 py-1 rounde
d">New</div>
         {isSale && <div className="absolute top-2 left-2 bg-red-500 text-white text-xs px-2 py-1 rounded">
Sale</div>
       ${price.toFixed
         onClick={handleAddToCart}
className="absolute bottom-4 right-4 bg-white p-2 rounded-full shadow-lg transform translate-y-ful
l opacity-0 group-hover:translate-y-0 group-hover:opacity-100 transition-all duration-200 hover:bg-gray-10
         aria-label="Add to cart'
         <ShoppingCart className="lg:w-5 lg:h-5 w-3 h-3 text-gray-600" />
        onClick={handleToggleFavorite}
className="absolute top-4 right-4 bg-white p-2 rounded-full shadow-lg transform translate-y-full o
pacity-0 group-hover:translate-y-0 group-hover:opacity-100 transition-all duration-200 hover:bg-gray-100"
         <Heart className={`lg:w-5 lg:h-5 w-3 h-3 ${isFavorite ? "text-red-500 fill-red-500" : "text-gray-6</pre>
```

Products Page:



🖶 Products Detail Page:

```
import { Suspense } from "react"
import Image from "next/image"
import Layout from "@/components/Layout"
import AddloCartButton from "@/components/AddToCartButton'
import { client } from "@/sanity/lib/client"
import { urlFor } from "@/sanity/lib/image"
import { urlFor } from "@/sanity/lib/image"
    type PageProps = {
  params: Promise<{ id: string }>
    price,
description,
"imageUrl": image.asset->url,
...
    async function ProductDetail({ id }: { id: string }) {
  const product = await getProduct(id)
     return (
<main className="container mx-auto px-4 py-12"
<div className="grid md:grid-cols-2 gap-12":
            {/* Product Image */}
<div className="relative aspect-square bg-gray-100 rounded-lg overflow-hidden">
             <Image
src={urlFor(product.imageUrl).url() || "/placeholder.svg"}
alt={product.title}</pre>
             {product.description}
<AddToCartButton product=(product) />
    export default async function ProductPage({ params }: PageProps) {
      <Suspense fallback={<ProductDetailSkeleton />}>
<ProductDetail id={id} />
```

3. Documentation:

✓ Steps taken to build and integrate components:

- **Tech Stack**: Chose React.js, Node.js/Express, and MongoDB.
- **Design**: Created wireframes in Figma.
- **Frontend**: Built React components and used Material-UI.
- Backend: Developed APIs with Node.js, Passport.js for auth, JWT for secure login.
- API Integration: Integrated third-party APIs and tested them.
- **Database**: Used MongoDB for user data storage and validation.
- Testing: Conducted unit tests and manual testing.
- **Deployment**: Deployed on Heroku/AWS (backend) and Netlify (frontend).
- Optimization: Improved performance and UI.

✓ Challenges faced and solutions implemented:

✓ During the Comforty hackathon, I faced challenges with UI design, API integration, and performance. I used Figma, AI, and friend input to refine the UI, debugged APIs with Postman, and solved issues through research. I optimized the database and performance, with AI suggestions, and resolved deployment issues on Vercel. Most challenges were tackled independently, with minimal help.

✓ Best practices followed during development:

I followed best practices such as writing modular code, using Git for version control, documenting key sections, ensuring mobile-friendly design, and implementing robust error handling, optimized performance, and set up Vercel for smooth deployment, all while using an iterative development approach.