Day-4 Building Dynamic Frontend Components [Nike E-Commerce]

Introduction:

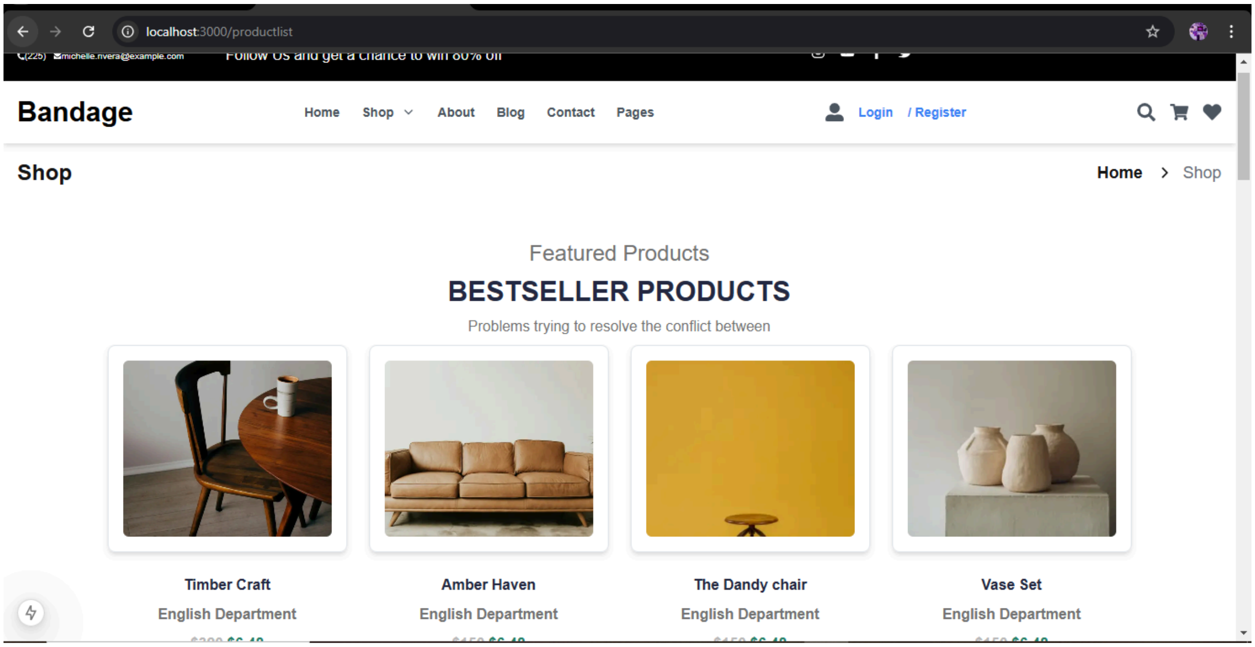
I worked on a niche ecommerce marketplace. I used the next js, tailwind CSS, and sanity for its development. In this document all details are included regarding development.

Steps For Implementation:

Steps Taken:

1. **Project Setup:** Initialized Next.js app, front-end Tailwind CSS & HtML, and Sanity for CMS.
2. **API Integration:** Connected fake APIs to fetch product details ,reviews, and user data.
3. **Component Development:**Built UI components for product listing page, cart and checkout page.
4. **Deployment:** deployed using Versel for scalability.

1-Product Listing Page:



localhost:3000/productlist
(225) michelle.rivera@example.com
Follow Us and get a chance to win 80% off
Bandage
Home
Shop
About
Blog
Contact
Pages
Login
/ Register
Shop
Home
Shop

Featured Products

BESTSELLER PRODUCTS

Problems trying to resolve the conflict between

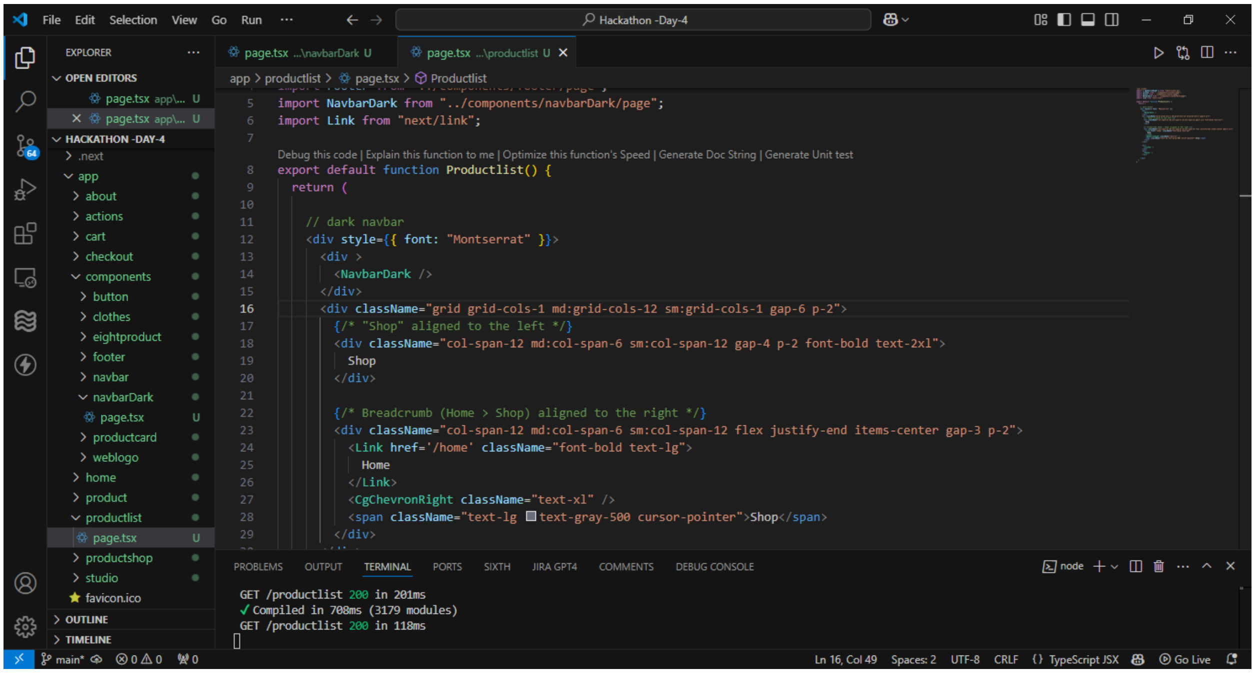
Timber Craft
English Department

Amber Haven
English Department

The Dandy chair
English Department

Vase Set
English Department

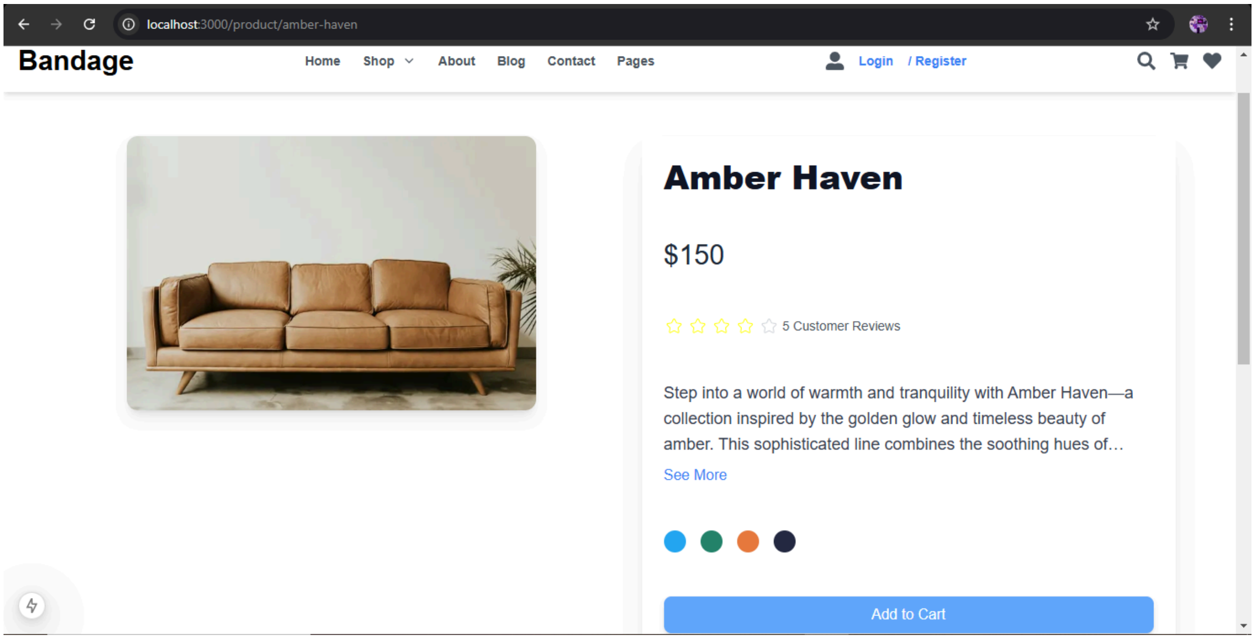
Product Listing Page:



```tsx
import NavbarDark from "../components/navbarDark/page";
import Link from "next/link";

export default function Productlist() {
  return (

    // dark navbar
    <div style={{ font: "Montserrat" }}>
      <div >
        <NavbarDark />
      </div>
      <div className="grid grid-cols-1 md:grid-cols-12 sm:grid-cols-1 gap-6 p-2">
        {/* "Shop" aligned to the left */}
        <div className="col-span-12 md:col-span-6 sm:col-span-12 gap-4 p-2 font-bold text-2xl">
          Shop
        </div>

        {/* Breadcrumb (Home > Shop) aligned to the right */}
        <div className="col-span-12 md:col-span-6 sm:col-span-12 flex justify-end items-center gap-3 p-2">
          <Link href='/home' className="font-bold text-lg">
            Home
          </Link>
          <CgChevronRight className="text-xl" />
          <span className="text-lg text-gray-500 cursor-pointer">Shop</span>
        </div>
```

```
GET /productlist 200 in 201ms
✓ Compiled in 708ms (3179 modules)
GET /productlist 200 in 118ms
```

2-Product Detail Page:



Amber Haven

$150

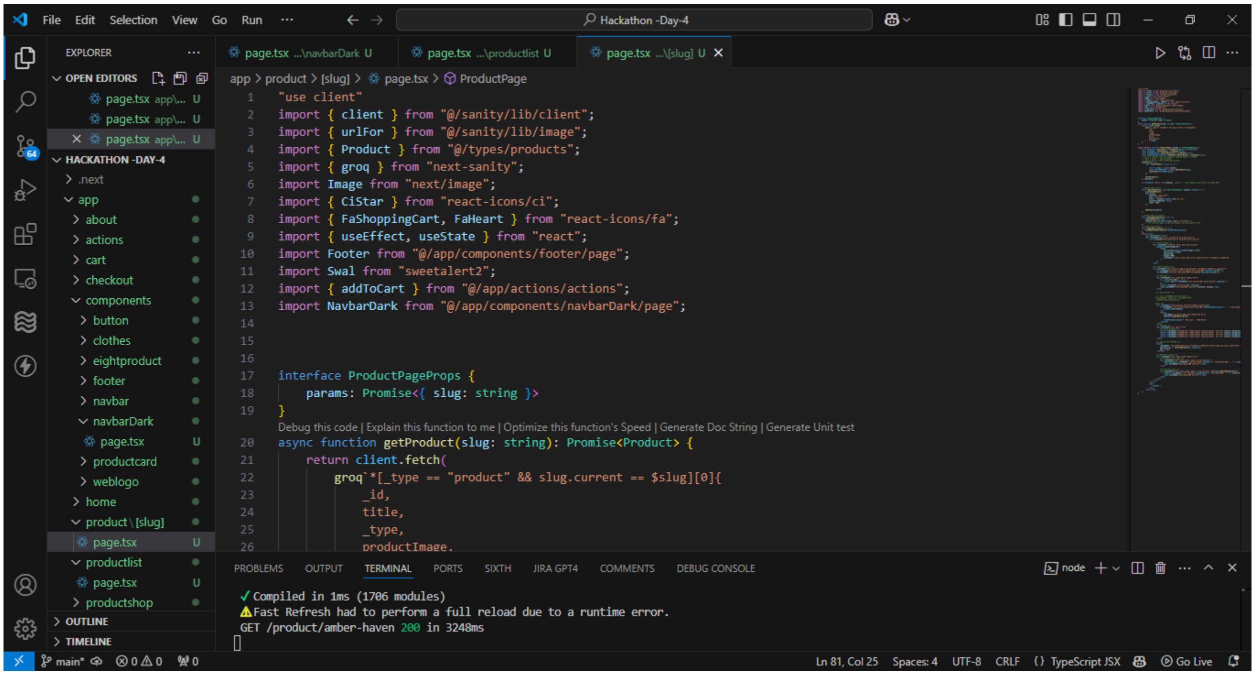
☆ ☆ ☆ ☆ ☆ 5 Customer Reviews

Step into a world of warmth and tranquility with Amber Haven—a collection inspired by the golden glow and timeless beauty of amber. This sophisticated line combines the soothing hues of…

See More

Add to Cart

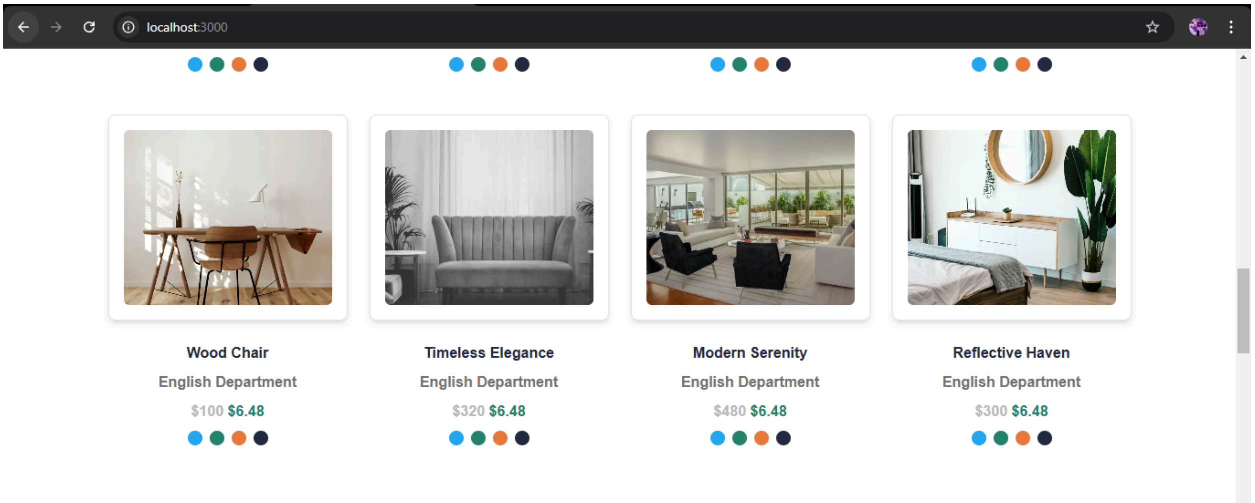
Product Detail Code:



```tsx
"use client"
import { client } from "@/sanity/lib/client";
import { urlFor } from "@/sanity/lib/image";
import { Product } from "@/types/products";
import { groq } from "next-sanity";
import Image from "next/image";
import { CiStar } from "react-icons/ci";
import { FaShoppingCart, FaHeart } from "react-icons/fa";
import { useEffect, useState } from "react";
import Footer from "@/app/components/footer/page";
import Swal from "sweetalert2";
import { addToCart } from "@/app/actions/actions";
import NavbarDark from "@/app/components/navbarDark/page";



interface ProductPageProps {
    params: Promise<{ slug: string }>
}
async function getProduct(slug: string): Promise<Product> {
    return client.fetch(
        groq`*[_type == "product" && slug.current == $slug][0]{
            _id,
            title,
            _type,
            productImage,
```

```
✓ Compiled in 1ms (1706 modules)
⚠ Fast Refresh had to perform a full reload due to a runtime error.
GET /product/amber-haven 200 in 3248ms
```

4-Related Products:



Wood Chair

English Department

$100 $6.48

Timeless Elegance

English Department

$320 $6.48

Modern Serenity

English Department

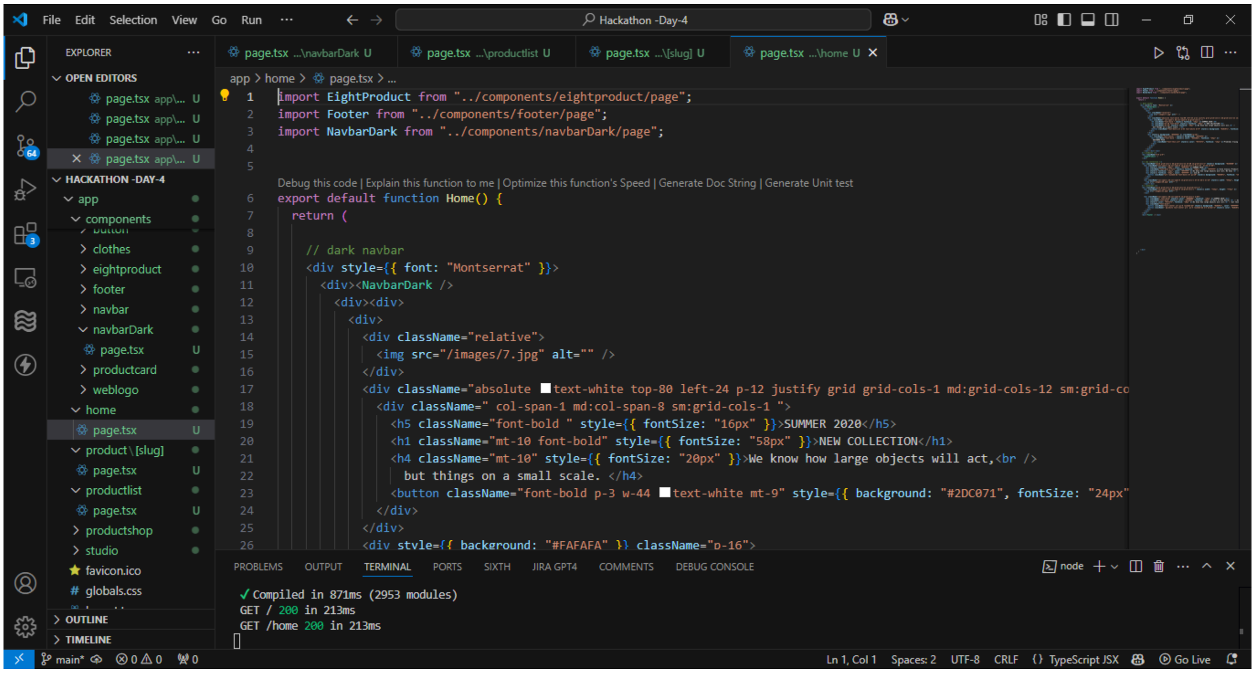
$480 $6.48

Reflective Haven

English Department

$300 $6.48

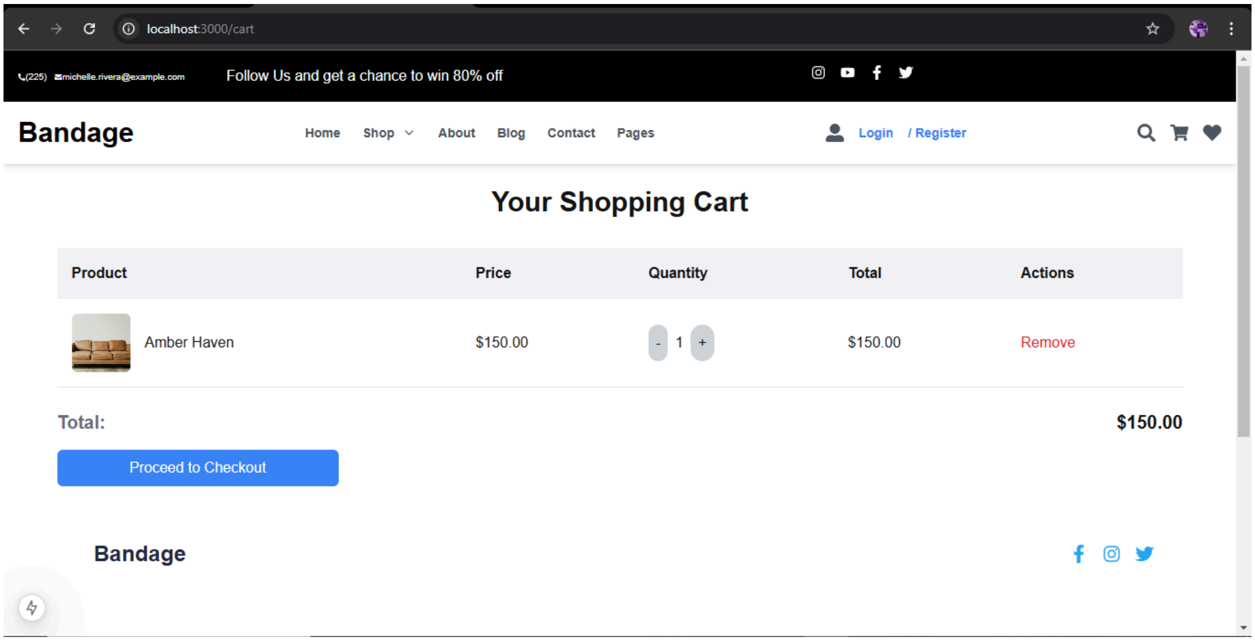
Related Products Code:


File Edit Selection View Go Run ...
Hackathon -Day-4
EXPLORER
OPEN EDITORS
HACKATHON -DAY-4
app
components
clothes
eightproduct
footer
navbar
navbarDark
page.tsx
productcard
weblogo
home
page.tsx
product \ [slug]
page.tsx
productlist
page.tsx
productshop
studio
favicon.ico
globals.css
OUTLINE
TIMELINE
page.tsx ...\navbarDark U
page.tsx ...\productlist U
page.tsx ...\[slug] U
page.tsx ...\home U
app > home > page.tsx > ...
Debug this code | Explain this function to me | Optimize this function's Speed | Generate Doc String | Generate Unit test
PROBLEMS OUTPUT TERMINAL PORTS SIXTH JIRA GPT4 COMMENTS DEBUG CONSOLE
node
main*
Ln 1, Col 1 Spaces: 2 UTF-8 CRLF {} TypeScript JSX Go Live

```
import EightProduct from "../components/eightproduct/page";
import Footer from "../components/footer/page";
import NavbarDark from "../components/navbarDark/page";


export default function Home() {
  return (

    // dark navbar
    <div style={{ font: "Montserrat" }}>
      <div><NavbarDark />
        <div><div>
          <div>
            <div className="relative">
              <img src="/images/7.jpg" alt="" />
            </div>
            <div className="absolute text-white top-80 left-24 p-12 justify grid grid-cols-1 md:grid-cols-12 sm:grid-co
              <div className=" col-span-1 md:col-span-8 sm:grid-cols-1 ">
                <h5 className="font-bold " style={{ fontSize: "16px" }}>SUMMER 2020</h5>
                <h1 className="mt-10 font-bold" style={{ fontSize: "58px" }}>NEW COLLECTION</h1>
                <h4 className="mt-10" style={{ fontSize: "20px" }}>We know how large objects will act,<br />
                  but things on a small scale. </h4>
                <button className="font-bold p-3 w-44 text-white mt-9" style={{ background: "#2DC071", fontSize: "24px"
              </div>
            </div>
            <div style={{ background: "#FAFAFA" }} className="p-16">
```

```
✓ Compiled in 871ms (2953 modules)
GET / 200 in 213ms
GET /home 200 in 213ms
```

3-Cart Page:

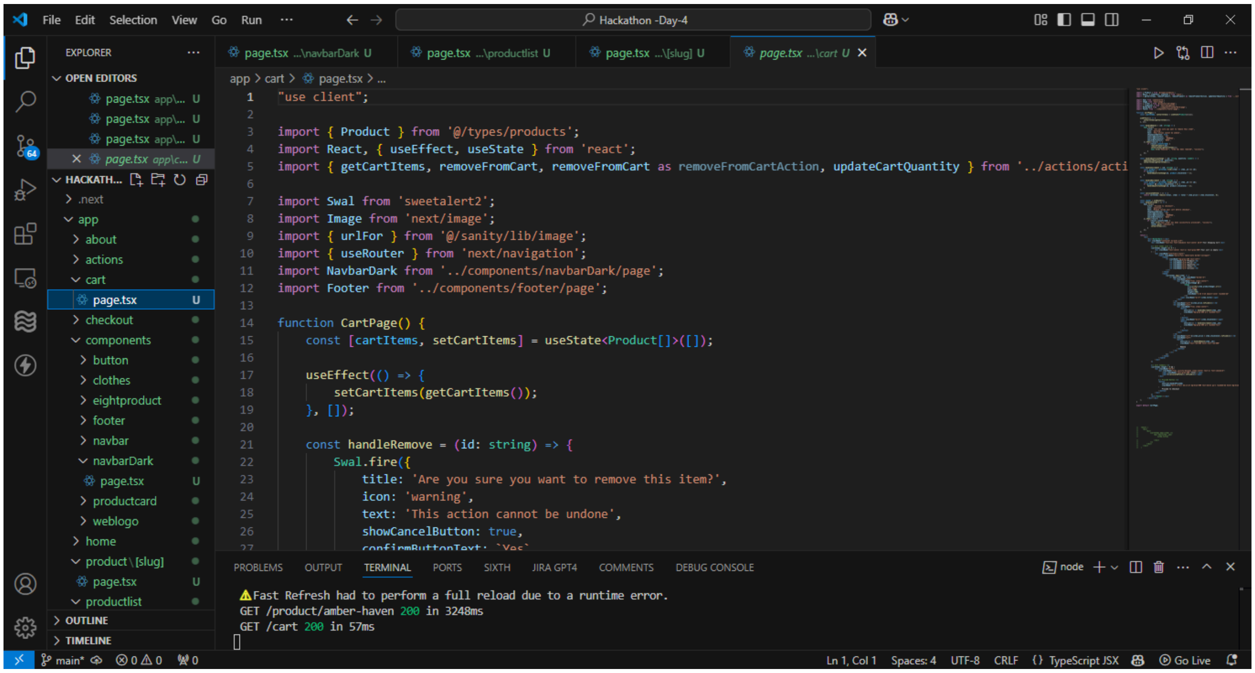

localhost:3000/cart
(225) michelle.rivera@example.com
Follow Us and get a chance to win 80% off
Bandage
Home
Shop
About
Blog
Contact
Pages
Login
/ Register

Your Shopping Cart

Product	Price	Quantity	Total	Actions
Amber Haven	$150.00	- 1 +	$150.00	Remove

Total: $150.00

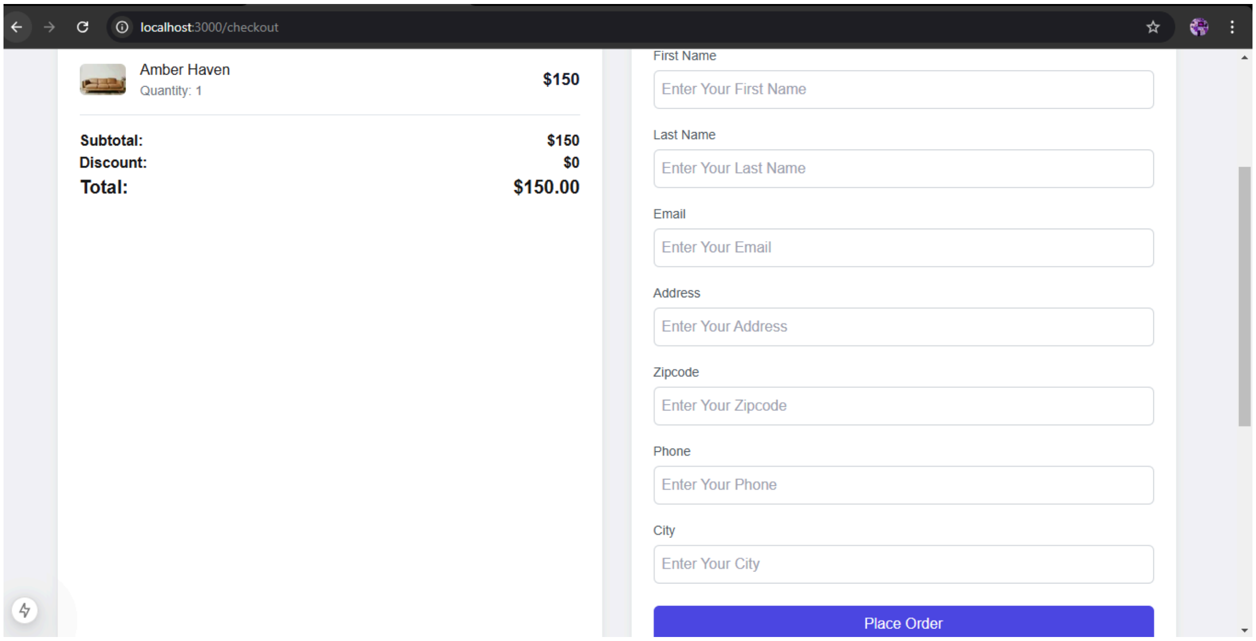
Cart Page Code:



```tsx
"use client";

import { Product } from '@/types/products';
import React, { useEffect, useState } from 'react';
import { getCartItems, removeFromCart, removeFromCart as removeFromCartAction, updateCartQuantity } from '../actions/acti

import Swal from 'sweetalert2';
import Image from 'next/image';
import { urlFor } from '@/sanity/lib/image';
import { useRouter } from 'next/navigation';
import NavbarDark from '../components/navbarDark/page';
import Footer from '../components/footer/page';

function CartPage() {
    const [cartItems, setCartItems] = useState<Product[]>([]);

    useEffect(() => {
        setCartItems(getCartItems());
    }, []);

    const handleRemove = (id: string) => {
        Swal.fire({
            title: 'Are you sure you want to remove this item?',
            icon: 'warning',
            text: 'This action cannot be undone',
            showCancelButton: true,
            confirmButtonText: `Yes`
```

```
⚠Fast Refresh had to perform a full reload due to a runtime error.
GET /product/amber-haven 200 in 3248ms
GET /cart 200 in 57ms
```

4-Checkout Page:



Amber Haven
Quantity: 1
$150

Subtotal:	$150
Discount:	$0
Total:	$150.00

First Name
Enter Your First Name

Last Name
Enter Your Last Name

Email
Enter Your Email

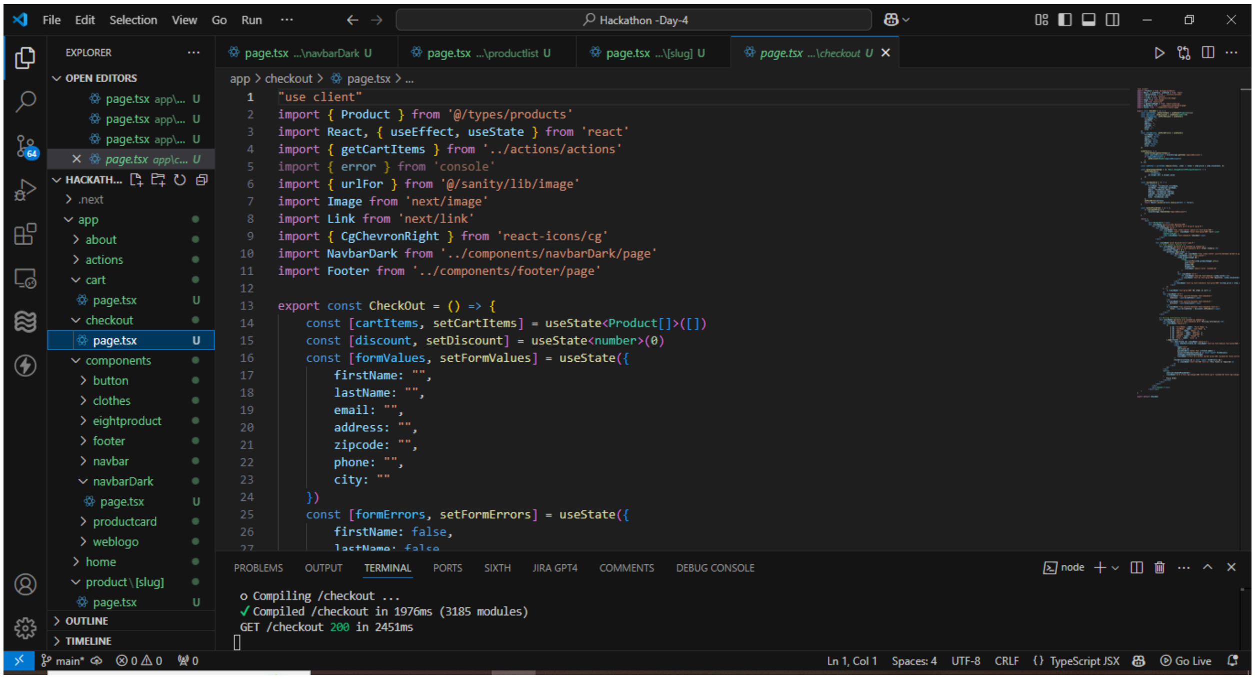
Address
Enter Your Address

Zipcode
Enter Your Zipcode

Phone
Enter Your Phone

City
Enter Your City

Checkout Page Code:



```tsx
"use client"
import { Product } from '@/types/products'
import React, { useEffect, useState } from 'react'
import { getCartItems } from '../actions/actions'
import { error } from 'console'
import { urlFor } from '@/sanity/lib/image'
import Image from 'next/image'
import Link from 'next/link'
import { CgChevronRight } from 'react-icons/cg'
import NavbarDark from '../components/navbarDark/page'
import Footer from '../components/footer/page'

export const CheckOut = () => {
    const [cartItems, setCartItems] = useState<Product[]>([])
    const [discount, setDiscount] = useState<number>(0)
    const [formValues, setFormValues] = useState({
        firstName: "",
        lastName: "",
        email: "",
        address: "",
        zipcode: "",
        phone: "",
        city: ""
    })
    const [formErrors, setFormErrors] = useState({
        firstName: false,
        lastName: false
```

```
o Compiling /checkout ...
✓ Compiled /checkout in 1976ms (3185 modules)
GET /checkout 200 in 2451ms
```

Challenges Facing:

While working with **Next.js** and **React**, I faced several challenges, but each challenge gave me the opportunity to think in new ways and improve my skills. The first challenge was understanding **Next.js's** server-side rendering and static site generation, as both concepts were quite different. While handling **dynamic content**, I faced issues like managing loading states and optimizing **SEO** during data fetching. In **React**, I also struggled a bit with implementing component reusability, but when I made the code more modular and clean, I saw significant improvement. Performance optimization was another big challenge, like using lazy loading and code splitting to make the website faster. By solving all these issues, I feel much more confident and efficient in my projects.