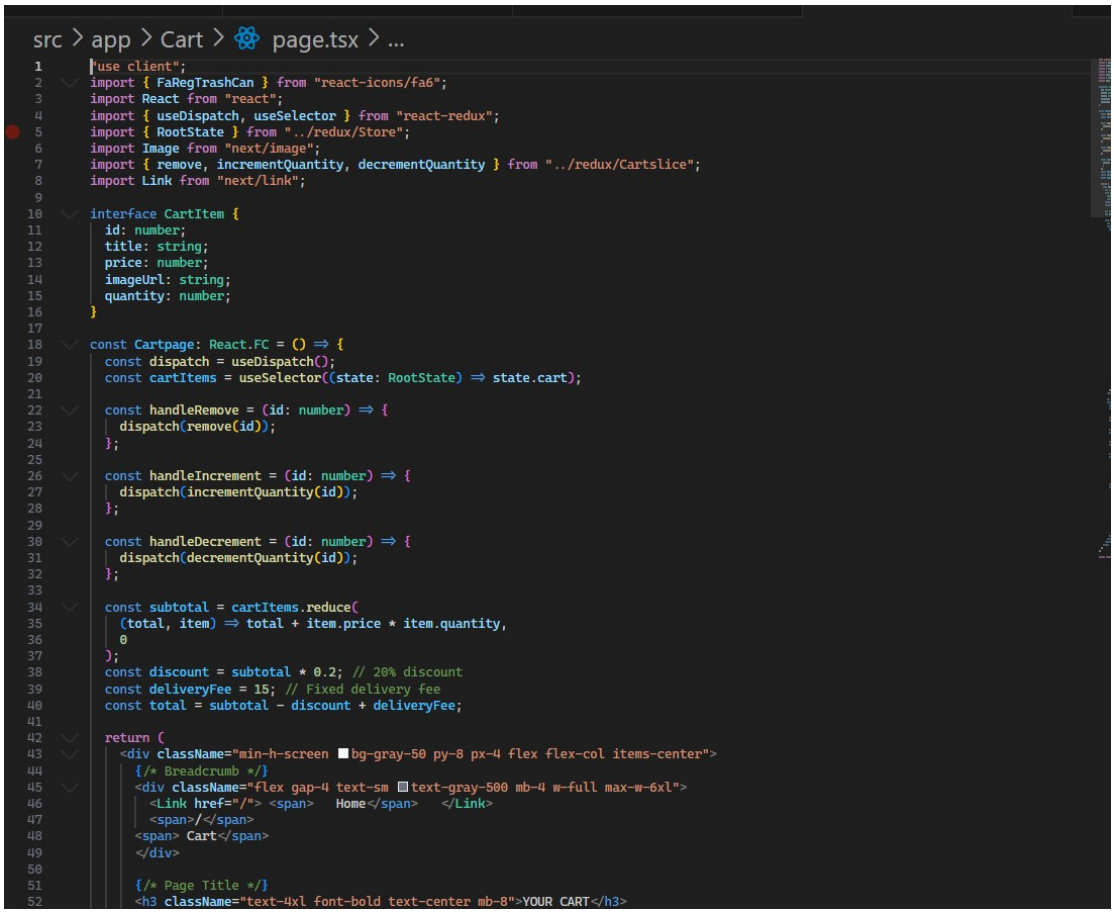
Days 5

Fronted Testing

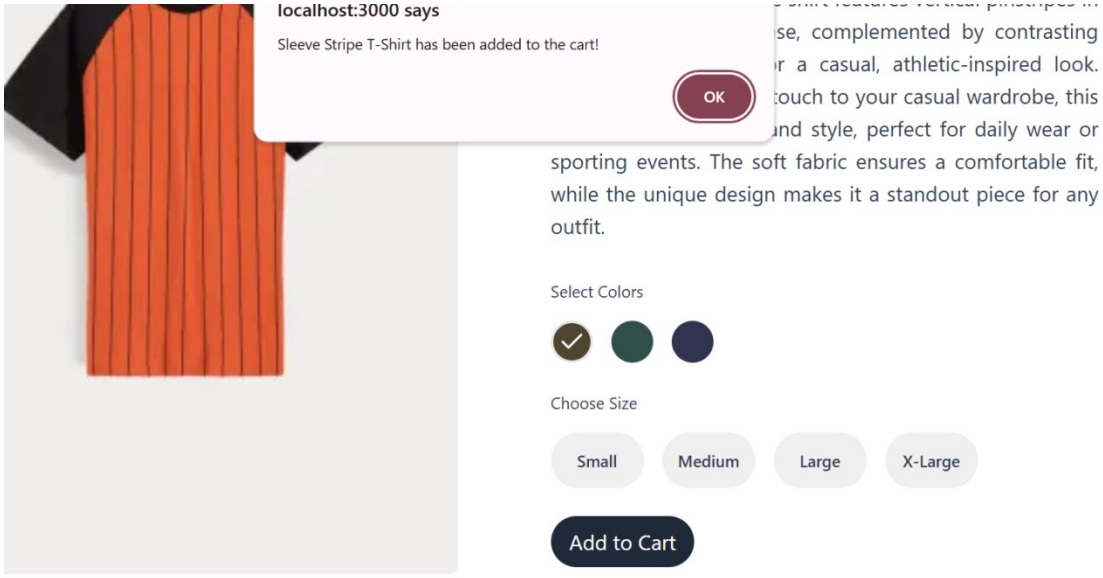
1. Add to Cart Functionaty

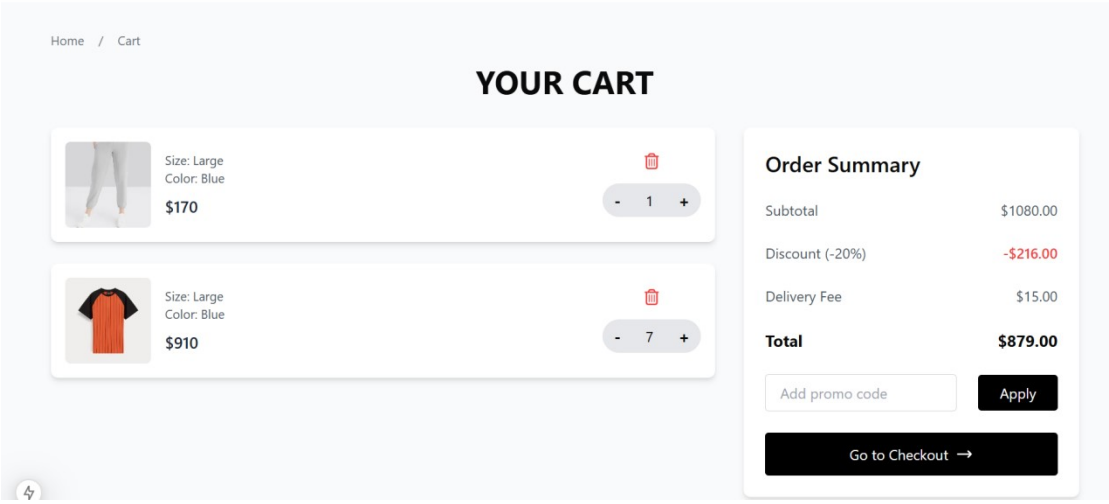
Code Screenshot



```
src > app > Cart > page.tsx > ...
"use client";
import { FaRegTrashCan } from "react-icons/fa6";
import React from "react";
import { useDispatch, useSelector } from "react-redux";
import { RootState } from "../redux/Store";
import Image from "next/image";
import { remove, incrementQuantity, decrementQuantity } from "../redux/Cartslice";
import Link from "next/link";

interface CartItem {
  id: number;
  title: string;
  price: number;
  imageUrl: string;
  quantity: number;
}

const Cartpage: React.FC = () => {
  const dispatch = useDispatch();
  const cartItems = useSelector((state: RootState) => state.cart);

  const handleRemove = (id: number) => {
    dispatch(remove(id));
  };

  const handleIncrement = (id: number) => {
    dispatch(incrementQuantity(id));
  };

  const handleDecrement = (id: number) => {
    dispatch(decrementQuantity(id));
  };

  const subtotal = cartItems.reduce(
    (total, item) => total + item.price * item.quantity,
    0
  );
  const discount = subtotal * 0.2; // 20% discount
  const deliveryFee = 15; // Fixed delivery fee
  const total = subtotal - discount + deliveryFee;

  return (
    <div className="min-h-screen bg-gray-50 py-8 px-4 flex flex-col items-center">
      {/* Breadcrumb */}
      <div className="flex gap-4 text-sm text-gray-500 mb-4 w-full max-w-6xl">
        <Link href="/"> <span>   Home</span>   </Link>
        <span>/</span>
      <span> Cart</span>
      </div>

      {/* Page Title */}
      <h3 className="text-4xl font-bold text-center mb-8">YOUR CART</h3>
```

Display Functionaty





1. Product Listing Component:

- Render product data dynamically in a grid layout.
- Include fields like:

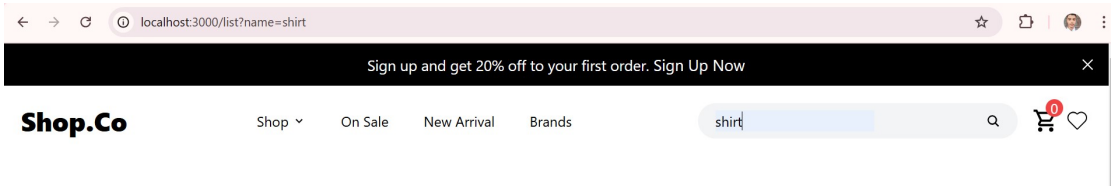
o Product Name
o Price o Image
o Stock Status

2. Product Detail Component: ·

Create individual product detail pages using dynamic routing in Next.js. Include detailed fields such as:

o Product Description
o Price o Available Sizes or Colors

3. Search Bar:



Expected Output:

1. Fully tested and functional marketplace components, validated against professional testing standards.
2. Clear and user-friendly error handling mechanisms implemented across all functionalities
3. Optimized performance with faster load times and smoother interactions.
4. A responsive design tested thoroughly on multiple browsers and devices.
5. A comprehensive CSV-based testing report documenting test cases, results, and resolutions.
6. Well-structured documentation summarizing all testing and optimization eUorts.
7. Error handling mechanisms with clear messages and fallback UI.
8. Optimized performance for faster page load times.
9. A responsive design verified on multiple browsers and devices.
10. Comprehensive documentation of testing and fixes.

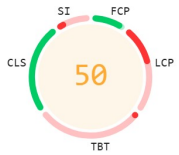
PERFORMANCE WEBSITE

http://localhost:3000/

Performance	Accessibility	Best Practices	SEO
50	89	100	100

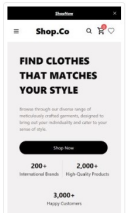
There were issues affecting this run of Lighthouse:

- **The tested device appears to have a slower CPU than Lighthouse expects. This can negatively affect your performance score. Learn more about calibrating an appropriate CPU slowdown multiplier.**



Performance

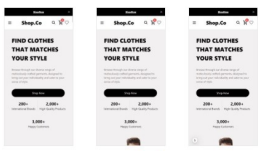
Values are estimated and may vary. The performance score is



50 89 100 100

First Contentful Paint 1.7 s	Largest Contentful Paint 4.1 s
Total Blocking Time 2,810 ms	Cumulative Layout Shift 0
Speed Index 6.8 s	

View Treemap



Show audits relevant to: All FCP LCP TBT

Best Practices

TRUST AND SAFETY

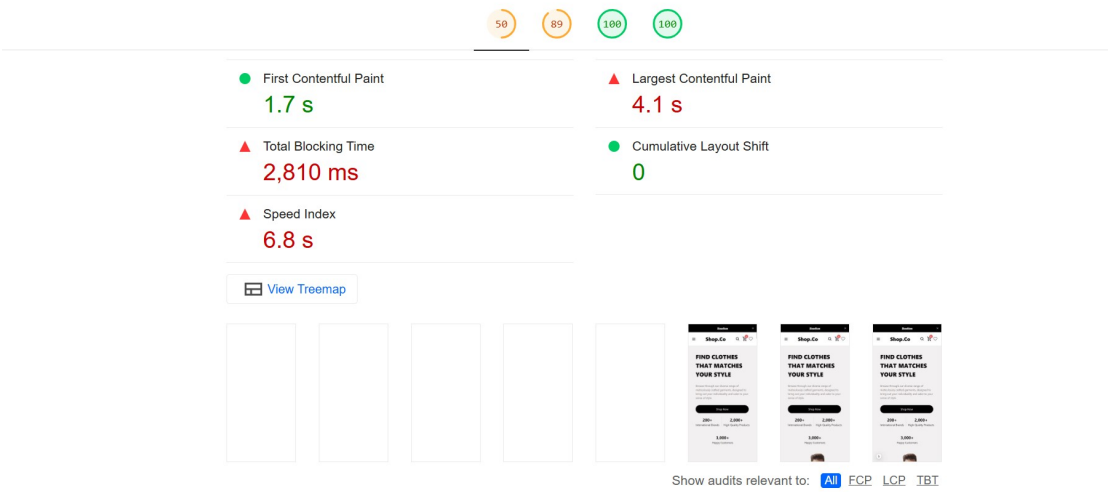
- Ensure CSP is effective against XSS attacks
- Use a strong HSTS policy
- Ensure proper origin isolation with COOP

PASSED AUDITS (25) Show

Accessibility

These checks highlight opportunities to improve the accessibility of your web app. Automatic detection can only detect a subset of issues and does not guarantee the accessibility of your web app, so manual testing is also encouraged.

NAMES AND LABELS



	Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Assigned To	Remarks
2	TC001	Validate product listing page	Open product page > Verify products	Products displayed correctly	Products displayed correctly	Passed	Low	-	No issues found
3	TC002	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error message	Error message shown	Passed	Medium	-	Handled gracefully
4	TC003	Check cart functionality	Add product to cart > Verify cart contents	Cart updates with added product	Cart updates as expected	Passed	High	-	Works as expected
5	TC004	Ensure responsiveness on mobile	Resize browser window > Check layout	Layout adjusts properly to screen size	Responsive layout working as intended	Passed	Medium	-	Test successful