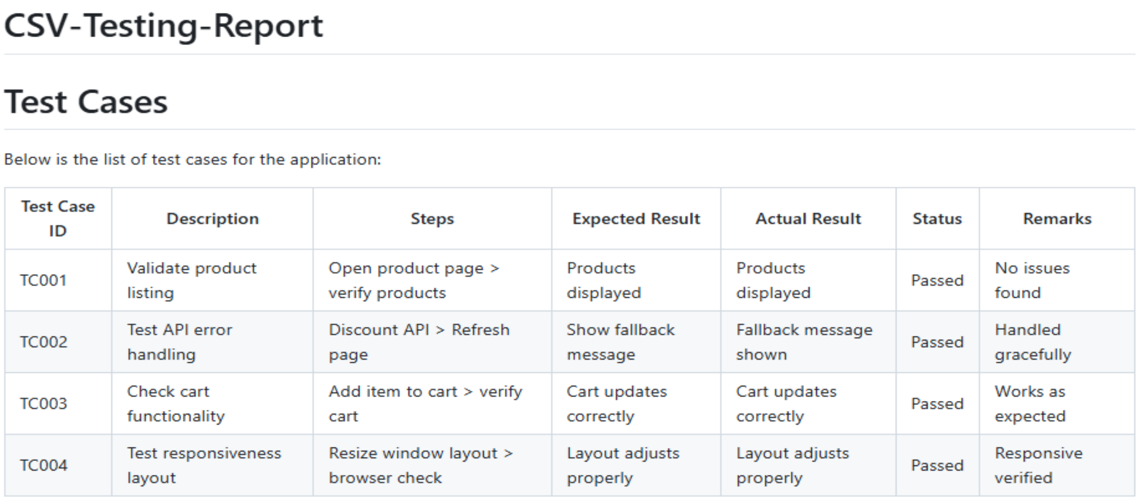
Day 5 - Testing, Error Handling, and Backend Integration Refinement (Bandage E-Commerce)

Testing Report:



CSV-Testing-Report

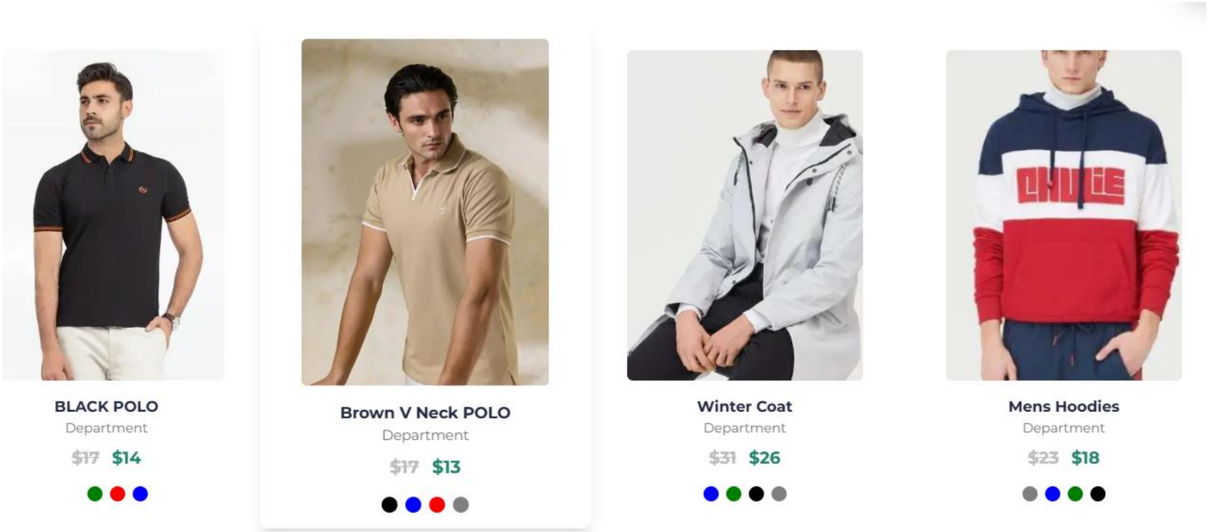
Test Cases

Below is the list of test cases for the application:

Test Case ID	Description	Steps	Expected Result	Actual Result	Status	Remarks
TC001	Validate product listing	Open product page > verify products	Products displayed	Products displayed	Passed	No issues found
TC002	Test API error handling	Discount API > Refresh page	Show fallback message	Fallback message shown	Passed	Handled gracefully
TC003	Check cart functionality	Add item to cart > verify cart	Cart updates correctly	Cart updates correctly	Passed	Works as expected
TC004	Test responsiveness layout	Resize window layout > browser check	Layout adjusts properly	Layout adjusts properly	Passed	Responsive verified

Test Case ID: TC001:

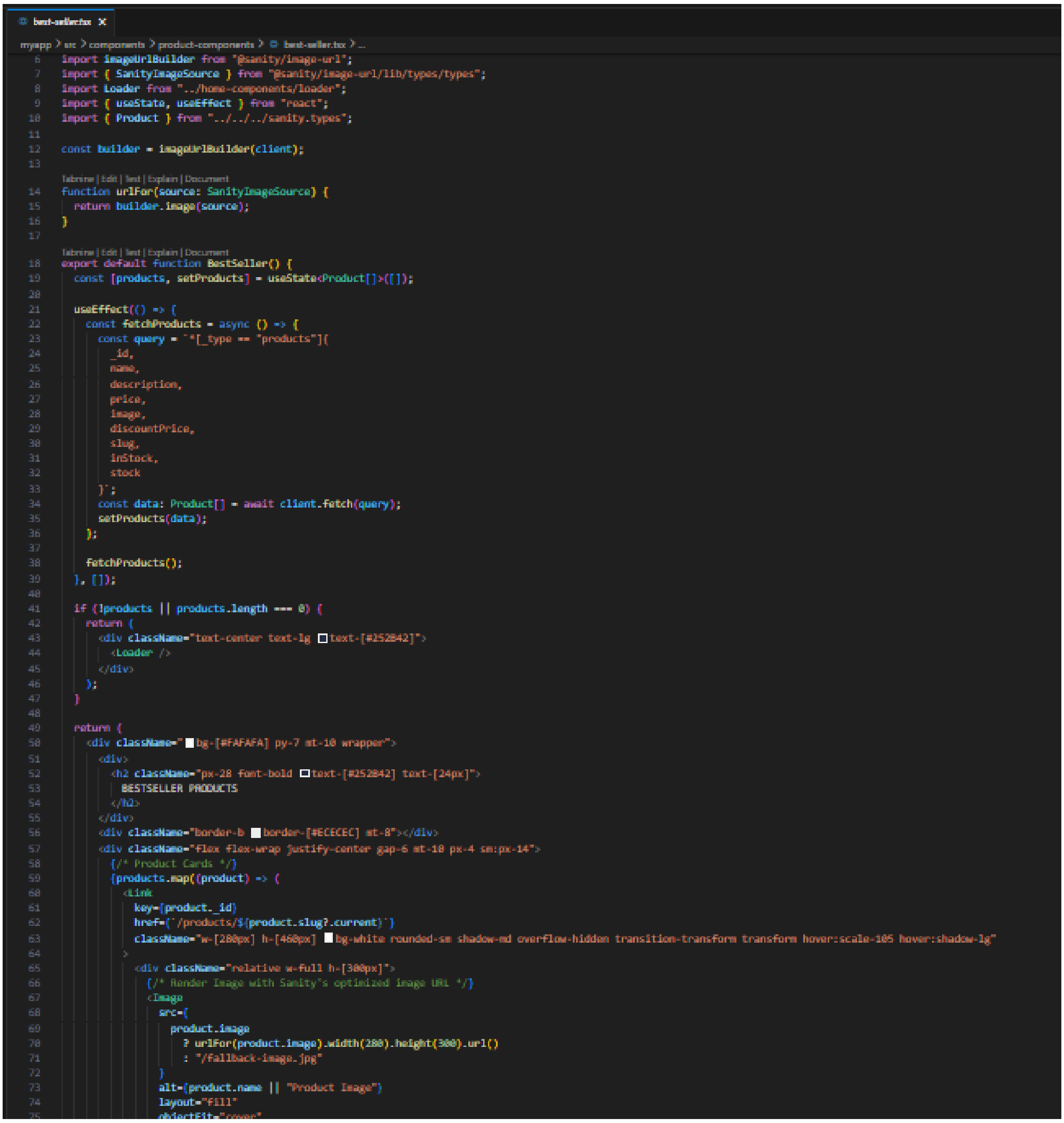
- Test Case Description: Validate product listing
- Test Steps: Open Product page> verify products.
- Expected Result: Products displayed
- Actual Result: Products Displayed
- Status : Passed
- Security Level :Medium
- Remarks: No issues Found



Test Case ID: TC002:

- Test Case Description: Test API Error Handling
- Test Steps: GROUQ Querry > Refresh Page
- Expected Result: Shall fallback shown
- Actual Result: Fallback message shown
- Status: Passed
- Security Level: Low
- Remarks: Handled Gracefully

Code Snnipet:



best-seller.tsx ×

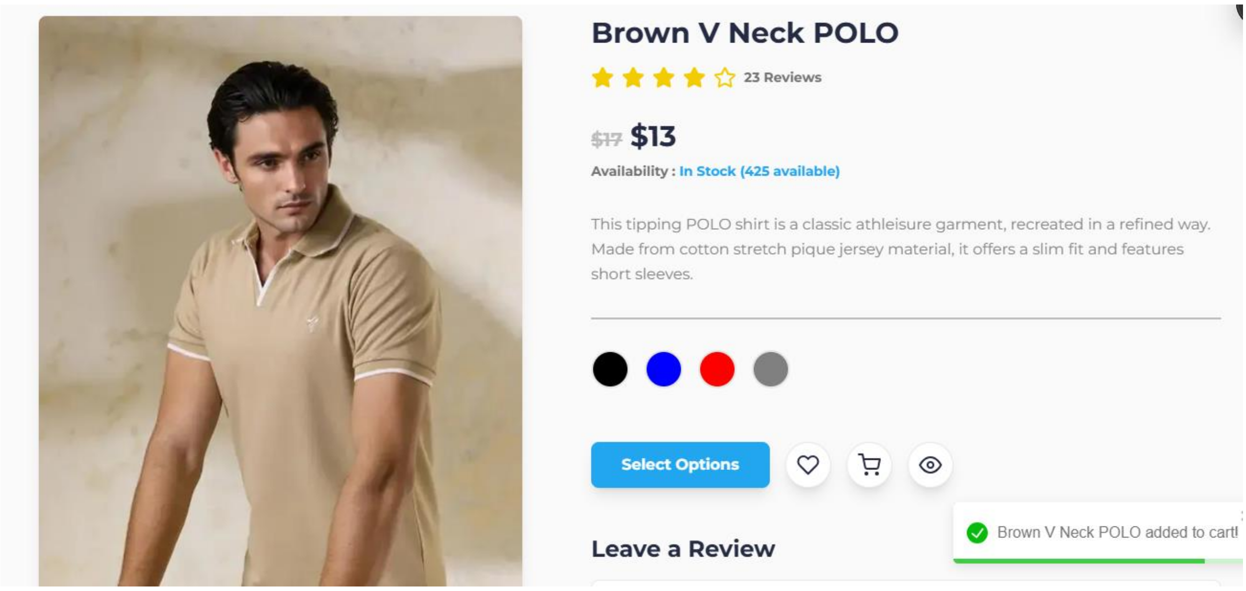
myapp > src > components > product-components > best-seller.tsx > ...

```
import imageUrlBuilder from "@sanity/image-url";
import { SanityImageSource } from "@sanity/image-url/lib/types/types";
import Loader from "../home-components/loader";
import { useState, useEffect } from "react";
import { Product } from "../../../sanity.types";

const builder = imageUrlBuilder(client);

Tabnine | Edit | Test | Explain | Document
function urlFor(source: SanityImageSource) {
  return builder.image(source);
}

Tabnine | Edit | Test | Explain | Document
export default function BestSeller() {
  const [products, setProducts] = useState<Product[]>([]);

  useEffect(() => {
    const fetchProducts = async () => {
      const query = `*[_type == "products"]{
        _id,
        name,
        description,
        price,
        image,
        discountPrice,
        slug,
        inStock,
        stock
      }`;
      const data: Product[] = await client.fetch(query);
      setProducts(data);
    };

    fetchProducts();
  }, []);

  if (!products || products.length === 0) {
    return (
      <div className="text-center text-lg text-[#252842]">
        <Loader />
      </div>
    );
  }

  return (
    <div className="bg-[#FAFAFA] py-7 mt-10 wrapper">
      <div>
        <h2 className="px-28 font-bold text-[#252842] text-[24px]">
          BESTSELLER PRODUCTS
        </h2>
      </div>
      <div className="border-b border-[#ECECEC] mt-8"></div>
      <div className="flex flex-wrap justify-center gap-6 mt-10 px-4 sm:px-14">
        {/* Product Cards */}
        {products.map((product) => (
          <Link
            key={product._id}
            href={`/products/${product.slug?.current}`}
            className="w-[280px] h-[460px] bg-white rounded-sm shadow-md overflow-hidden transition-transform transform hover:scale-105 hover:shadow-lg"
          >
            <div className="relative w-full h-[300px]">
              {/* Render Image with Sanity's optimized image URL */}
              <Image
                src={
                  product.image
                    ? urlFor(product.image).width(280).height(300).url()
                    : "/fallback-image.jpg"
                }
                alt={product.name || "Product Image"}
                layout="fill"
                objectFit="cover"
```

Prepared By Usman Naseem

Test Case ID: TC003:

- Test Case Description: Check cart functionality
- Test Steps: Add item to cart > verify cart
- Expected Result: Cart updates correctly
- Actual Result: Cart updates correctly
- Status: Passed
- Security Level: Medium
- Remarks: Works as expected



Brown V Neck POLO

★★★★☆ 23 Reviews

~~$17~~ $13

Availability : In Stock (425 available)

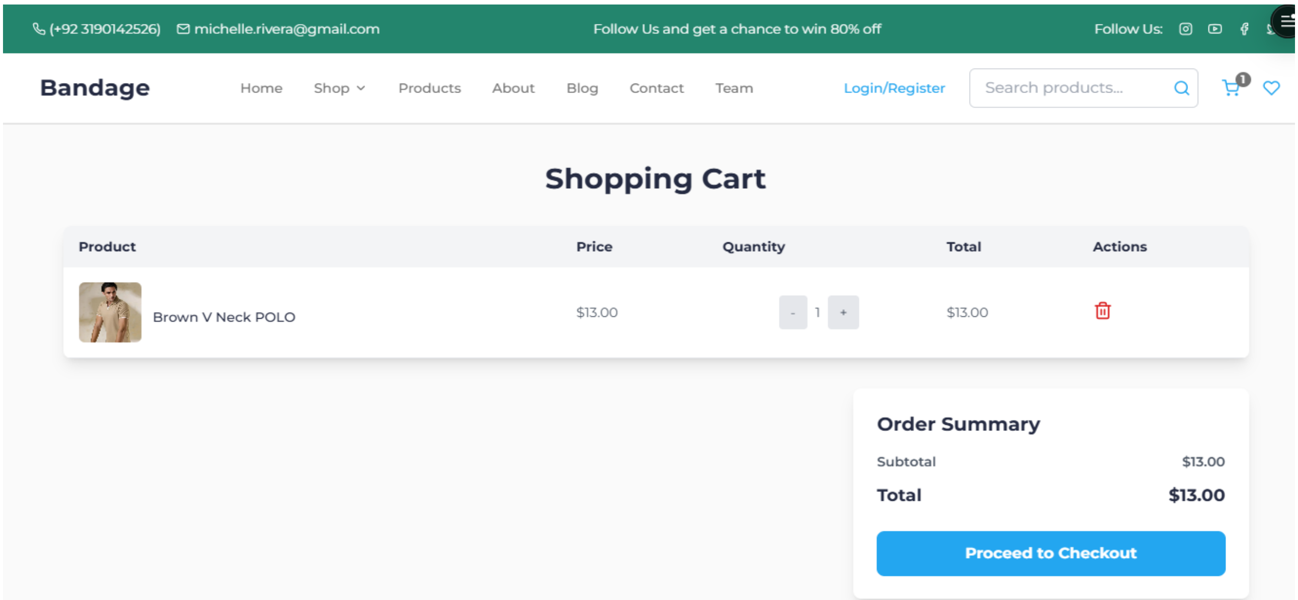
This tipping POLO shirt is a classic athleisure garment, recreated in a refined way. Made from cotton stretch pique jersey material, it offers a slim fit and features short sleeves.

● ● ● ●

Select Options

Leave a Review

✓ Brown V Neck POLO added to cart!



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Bandage Home Shop Products About Blog Contact Team Login/Register Search products...

Shopping Cart

Product	Price	Quantity	Total	Actions
Brown V Neck POLO	$13.00	- 1 +	$13.00	🗑

Order Summary

Subtotal	$13.00
Total	$13.00

Proceed to Checkout

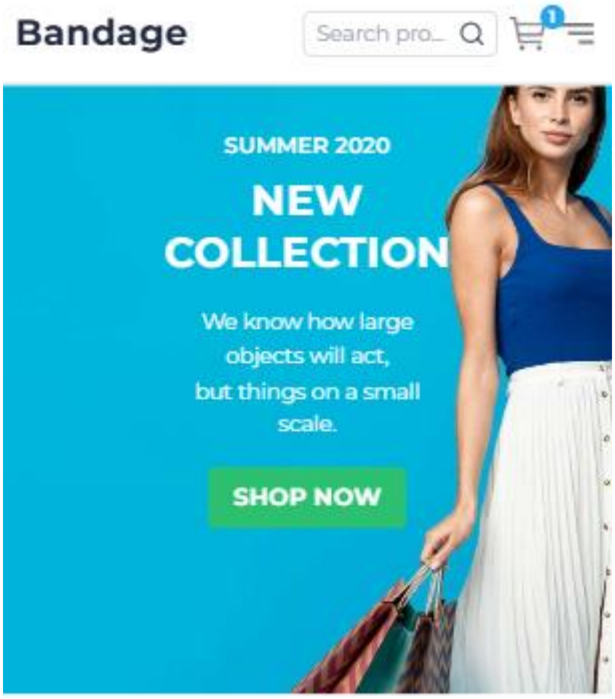
Prepared By Usman Naseem

Test Case ID: TC004:

- Test Case Description: Test responsiveness layout
- Test Steps: Resize window layout > browser check
- Expected Result: Layout adjusts properly
- Actual Result: Layout adjusts properly
- Status: Passed
- Security Level: Medium
- Remarks: Responsive verified

Screenshot of

- Mobile Devices:


Bandage
Search pro...
1
SUMMER 2020
NEW COLLECTION
We know how large objects will act, but things on a small scale.
SHOP NOW

Test Case ID: TC005:

- Test Case Description: Cross Browsing
- Test Steps: Open Our Website On Different Browsing such as Edge
- Expected Result: Currently Working on Every Devices
- Actual Result: Currently Working on Every Devices
- Status: Passed
- Security Level: Low
- Remarks: Sucessfully

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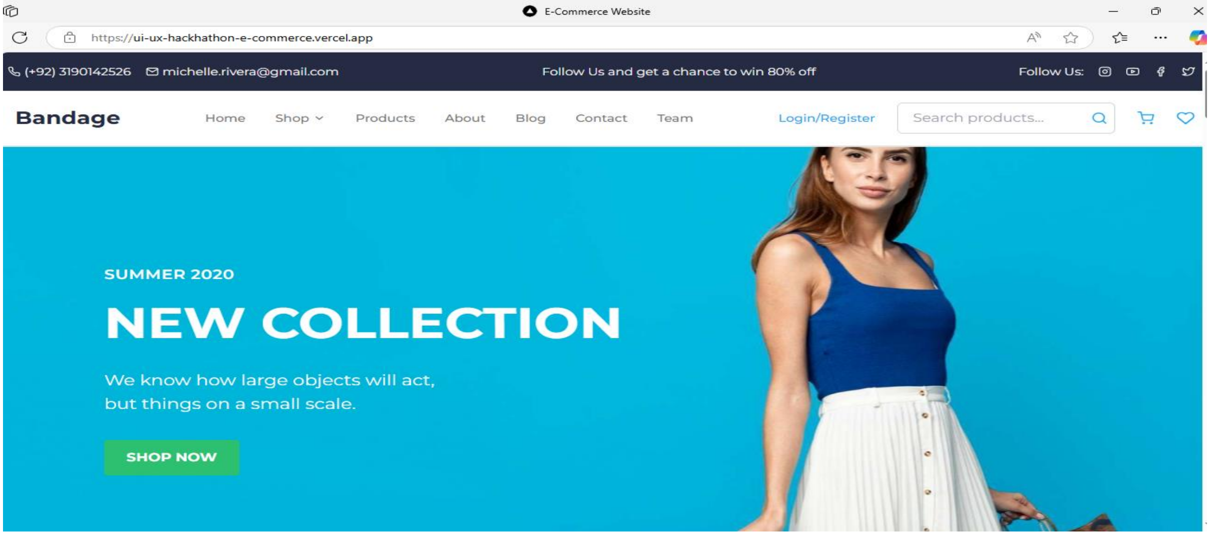
Edge:



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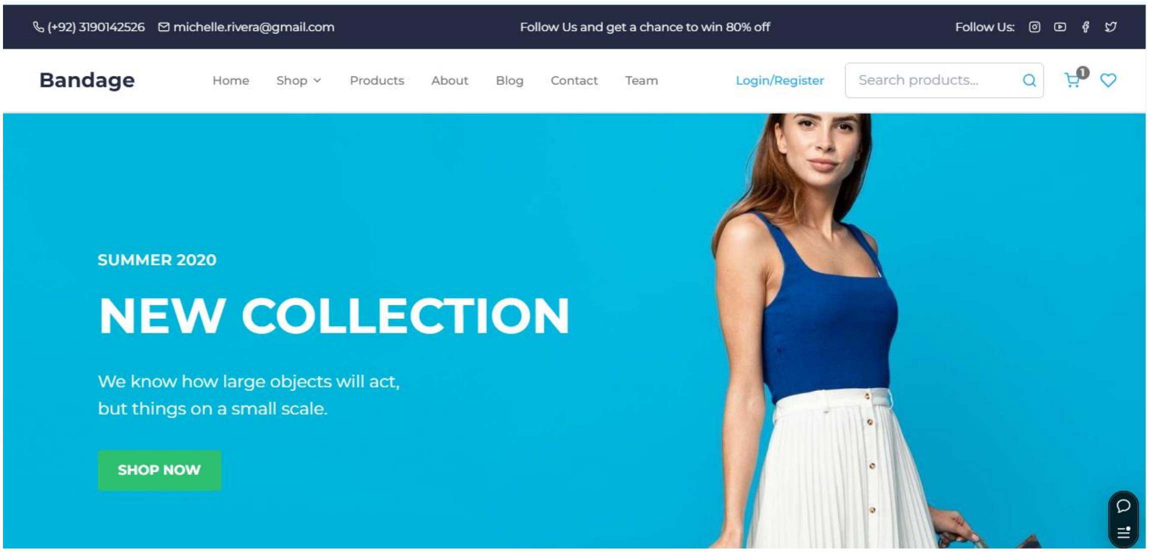
Google



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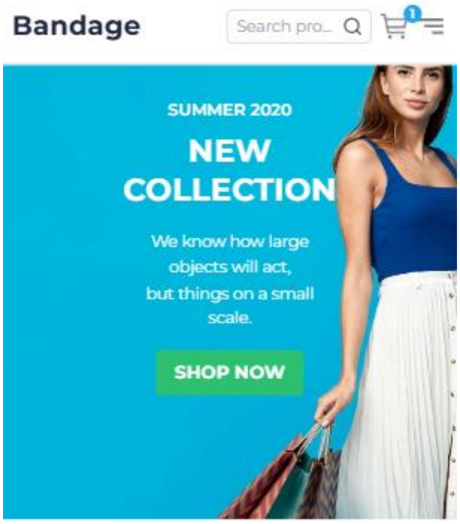
Devices Testing:

- Mobile Device:



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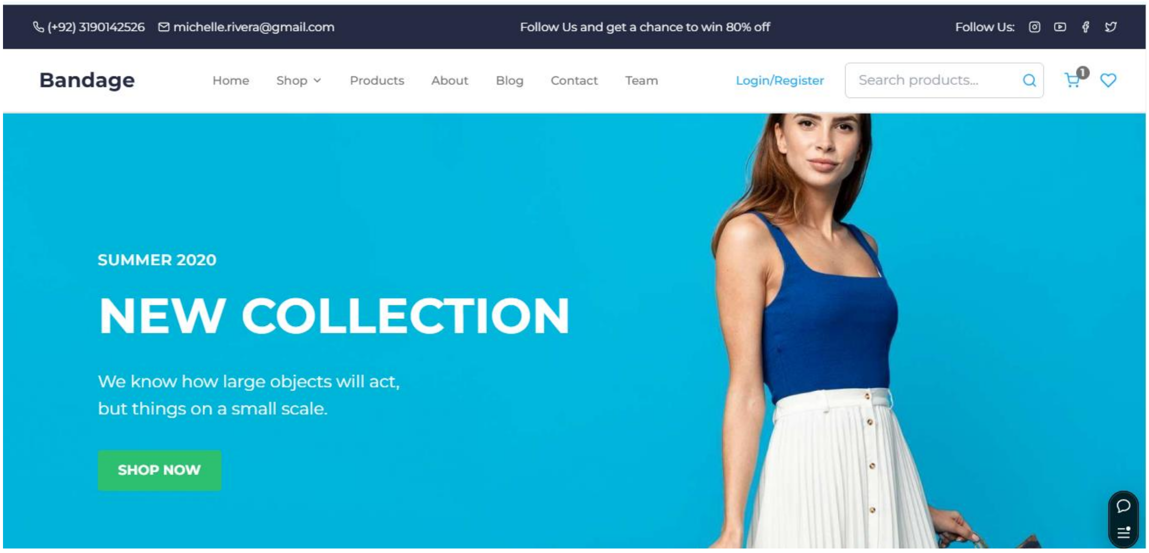
- Desktop Device:



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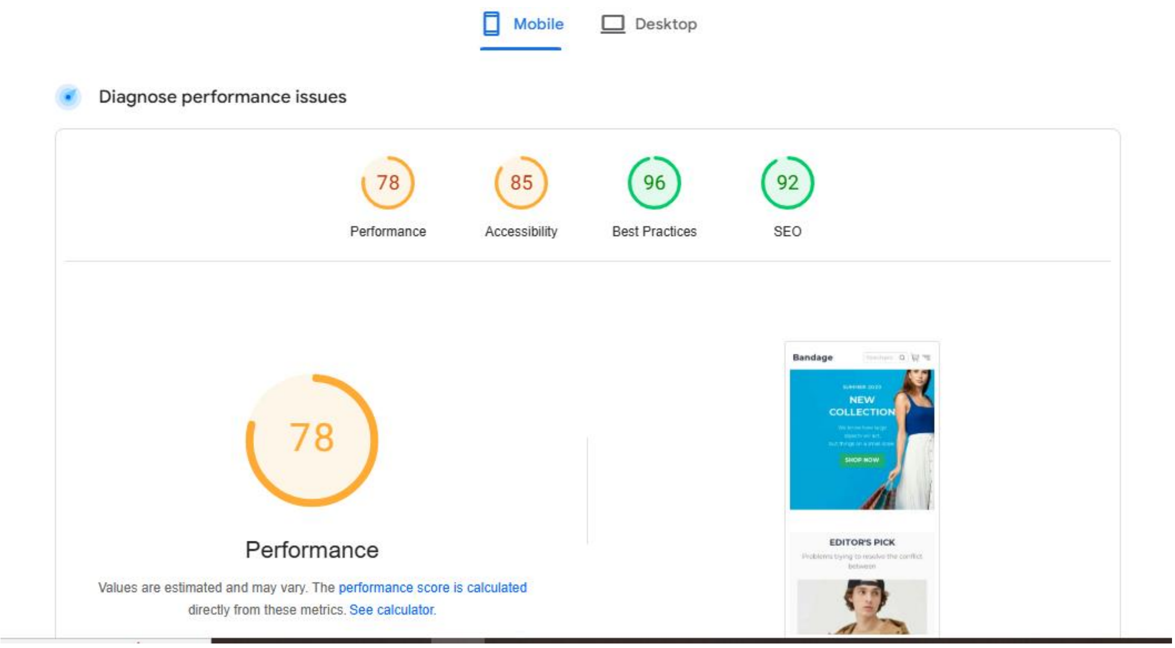
We know how large objects will act, but things on a small scale.

Performance Optimization:

Performance Testing Report link:

https://github.com/usmannaseem23/Performance-Testing-Report/edit/main/README.md

Mobile View Screenshot:



Mobile Desktop

Diagnose performance issues

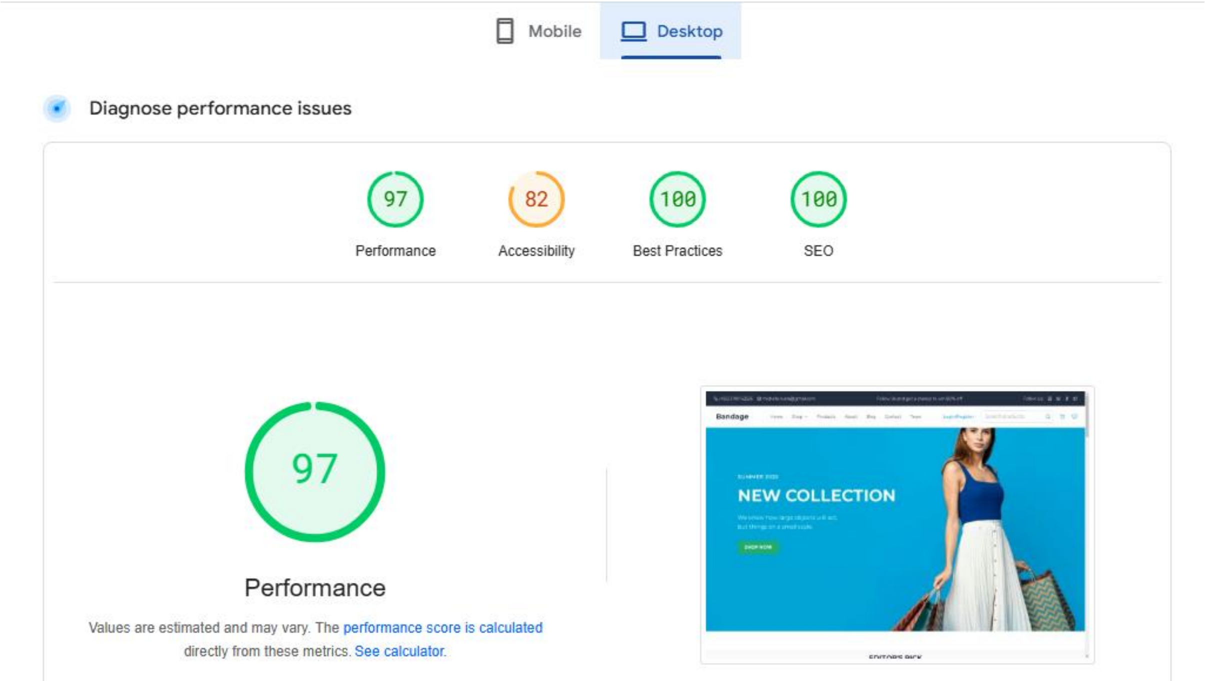
78	85	96	92
Performance	Accessibility	Best Practices	SEO

78

Performance

Values are estimated and may vary. The performance score is calculated directly from these metrics. See calculator.

Desktop View Screenshot:



Mobile Desktop

Diagnose performance issues

97	82	100	100
Performance	Accessibility	Best Practices	SEO

97

Performance

Values are estimated and may vary. The performance score is calculated directly from these metrics. See calculator.

Prepared By Usman Naseem

Checklist:

Functional Testing:	Error Handling:	Performance Optimization:	Cross-Browser and Device Testing	Security Testing:	Documentation
✓	✓	✓	✓	✓	✓