

HACKATHON 3 DAY 5 {BANDAGE ECOMMERCE}

OBJECTIVE:

Day 5 focuses on prepare marketplace for real-world deployment by ensuring all components are thoroughly tested, optimized for performance. The emphasis will be on testing backend integrations, implementing error handling, and refining the user experience.

Step: 1:-

FUNCTIONAL TESTING:

Product Listing: Verify products are displayed with proper details.

Product Details: Ensure product detail pages show correct information like ratings, price, description, images.

Dynamic Routing: Validate navigation to individual product detail pages.

Add to Cart: Confirm items can be added, updated, and removed from the cart.

Add to Wishlist: Ensure products can be added to and managed in the Wishlist.

Responsive Design: Validate that all features and pages seamlessly to various screen sizes (mobile, tablet, and desktop).

Step: 2:-

ERROR HANDLING:

✓ INVALID OR MISSING DATA:

```
<div className="flex flex-col">
  <label htmlFor="email" className="font-medium">
    Email:
  </label>
  <input
    type="email"
    id="email"
    placeholder="Enter your Email"
    value={formValues.email}
    onChange={handleInputChange}
    className="border rounded-sm p-2 mt-1"
  />
  {formErrors.email && (
    <p className="text-sm text-red-600 mt-1">Email is Required</p>
  )}
</div>
```

✓ Unexpected Server Errors:

Use generic fallback messages for unhandled server-side errors.

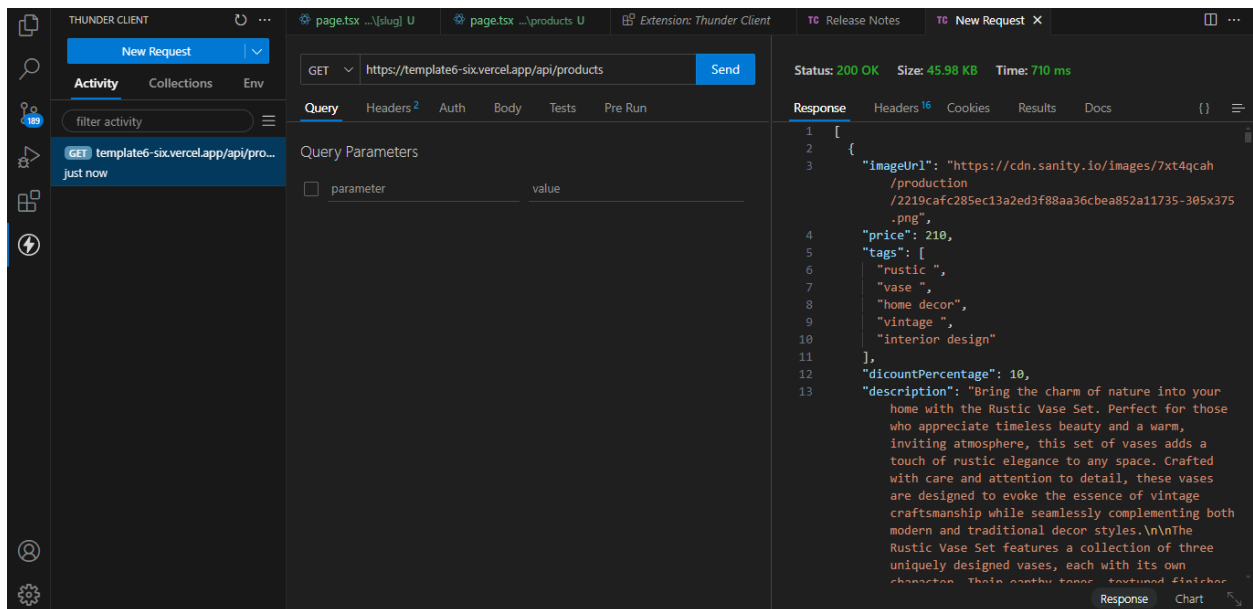
✓ API ERROR HANDLING:

```
const OurProducts = () => {
  const [product, setProduct] = useState<Product[]>([]);
  const [loading, setLoading] = useState<boolean>(true); // Add a loading state
  const [error, setError] = useState<string | null>(null); // Add an error state

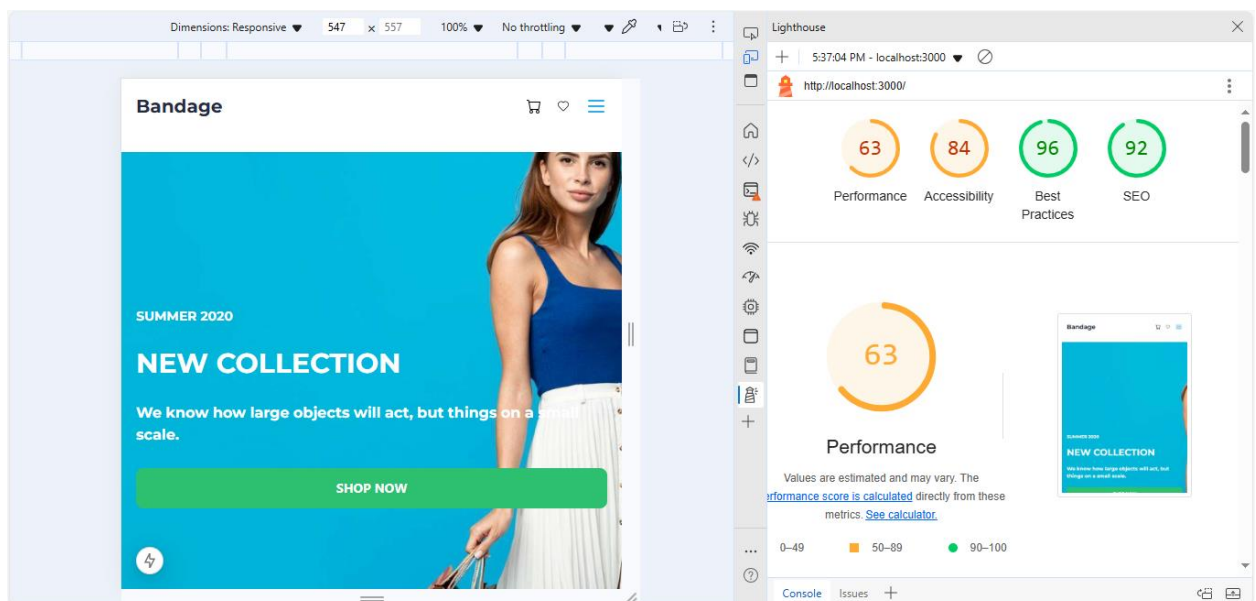
  useEffect(() => {
    async function fetchProduct() {
      try {
        const fetchedProduct: Product[] = await client.fetch(allProducts);
        setProduct(fetchedProduct);
        setLoading(false); // Stop loading after data is fetched
      } catch (err) {
        setError("Failed to load products.");
        setLoading(false); // Stop loading on error
      }
    }
    fetchProduct();
  }, []);
}
```

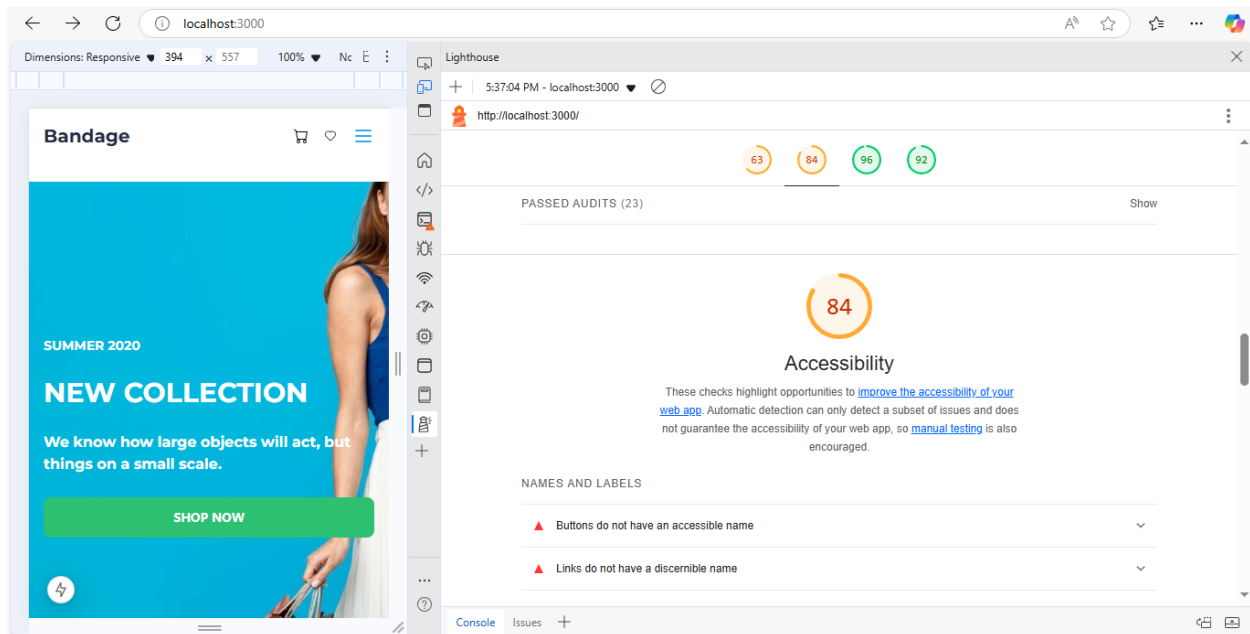
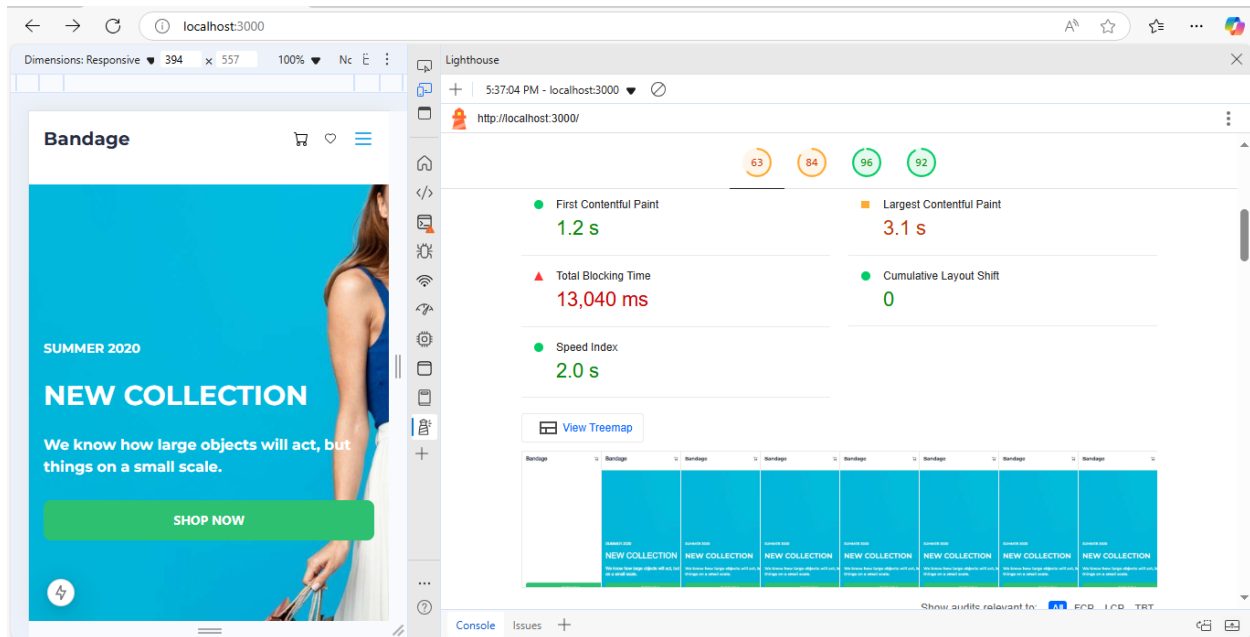
Step: 3:-

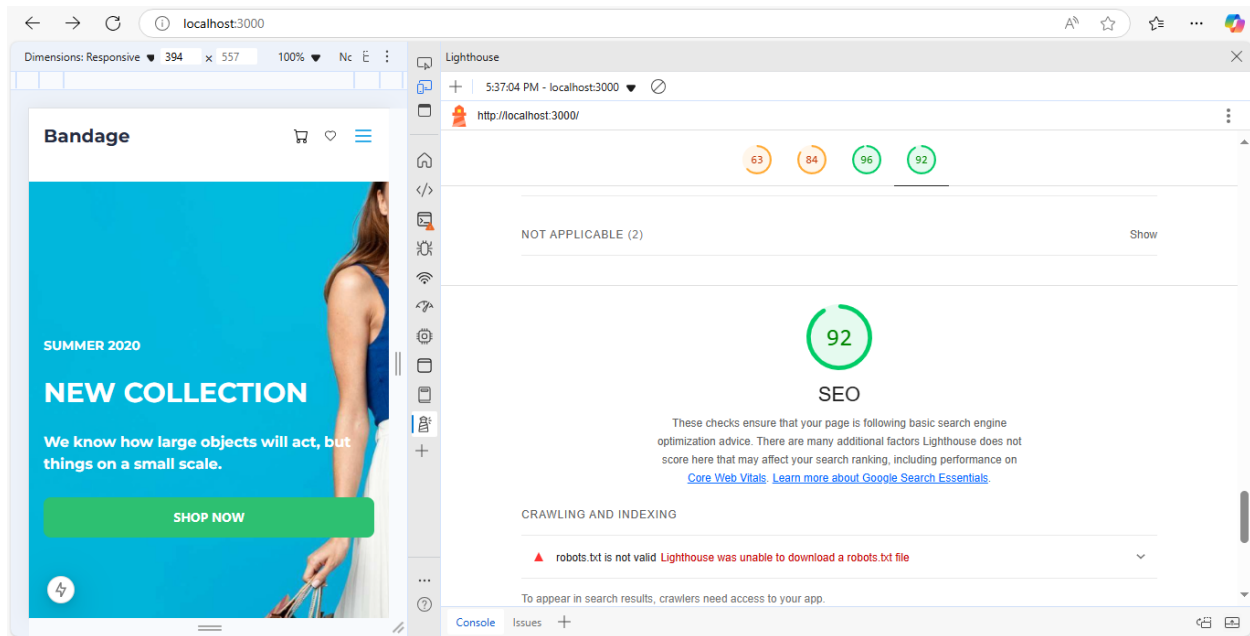
PERFORMANCE OPTIMIZATION:



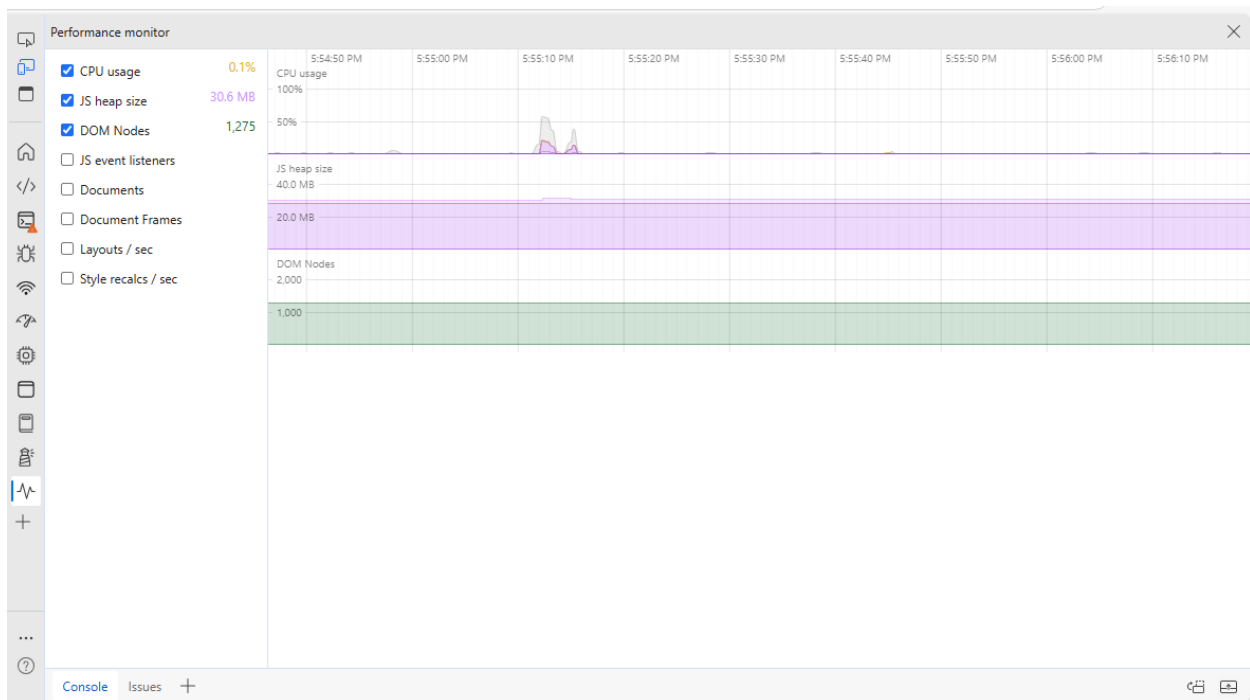
✓ ANALYZE PROFORMANCE TESTING:





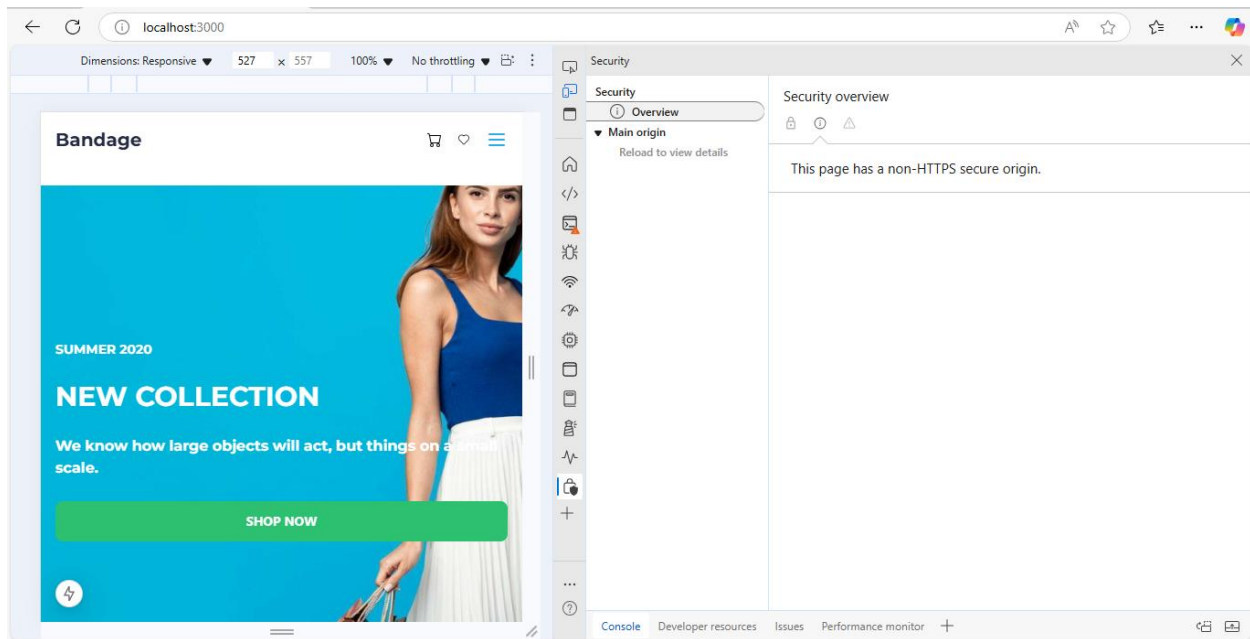


PERFORMANCE MONITOR:



Step: 4:-

SECURING TESTING:-



```
$ .env.local
1  NEXT_PUBLIC_SANITY_PROJECT_ID="416vhoop"
2  NEXT_PUBLIC_SANITY_DATASET="production"
3  API_TOKEN="skFskYZGw2ZzyjENIOowNYnPNouBrHn0earo7aH5Qar9RY4My6WzHgAKGkghU
4
```

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