DAY 5

Testing,_Error_Handling_and_Backend_Integration_Refinement

Website Functional Testing Report:

This report details the functional testing conducted on e-commerce website name Bandage. The objective is to ensure that all marketplace features work as intended and provide a seamless user experience.

Test Objectives:

The whole marketplace features like product listing, product detail and cart page as work expected.

ERROR HANDLING

For error handling use try catch method and its works perfectly.

```
const fetchProduct = async () => {
  try {
    const query = `*[_type == "product" && slug.current == $slug][0]`;
    const result: Product = await client.fetch(query, { slug });

    if (result) {
      setProduct(result);
    } else {
      console.error("Product not found.");
    }
  } catch (error) {
    console.error("Error fetching product:", error);
  } finally {
    setLoading(false);
  }
};
```

Testing API's:

For testing API's i use thunder client and use get method .and its show all product data the screen shot of data is given

GET ∨ https://template6-six.vercel.app/api/products ... Send

Query   Headers [2]   Auth   Body   Tests   Pre Run

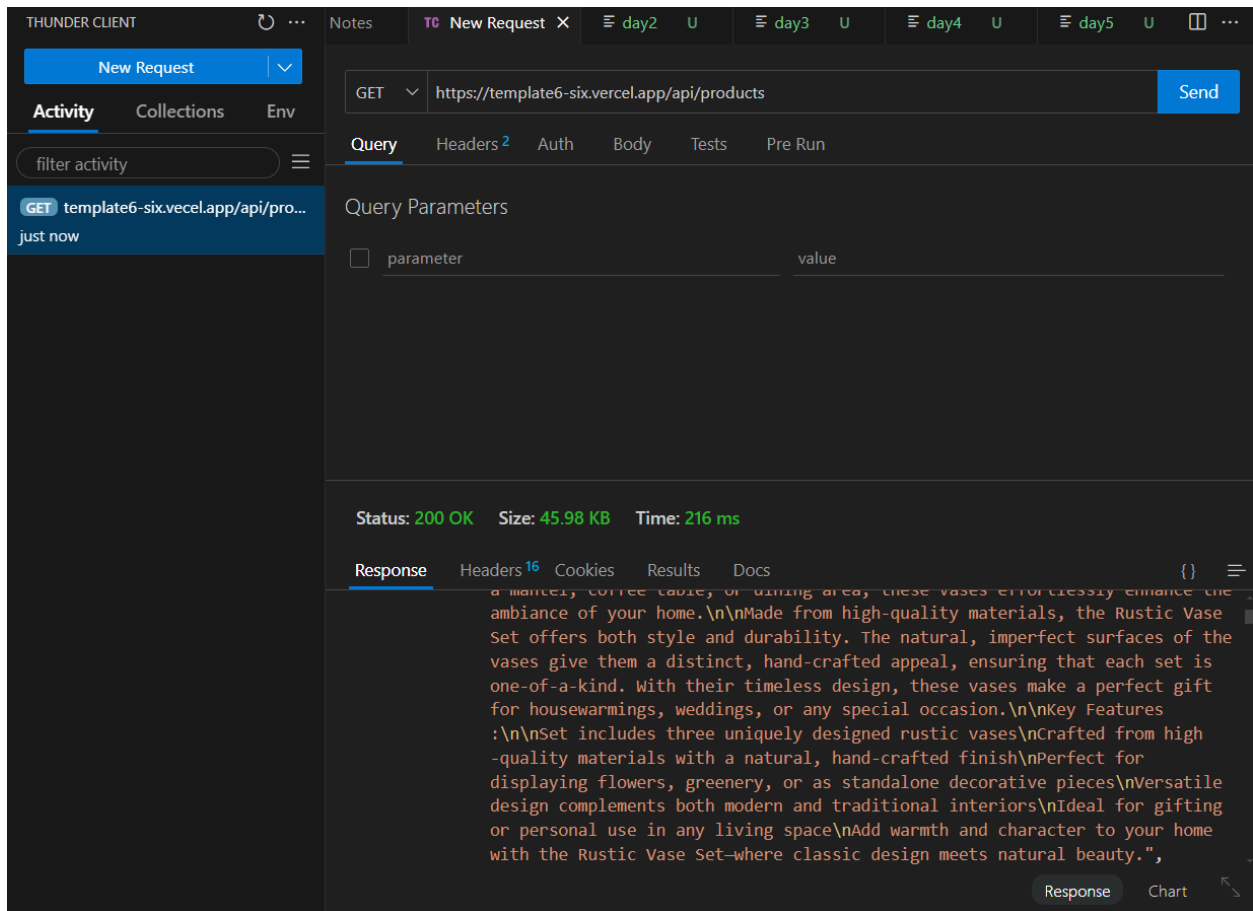Status: 200 OK   Size: 45.98 KB   Time: 231 ms

Response   Headers [16]   Cookies   Results   Docs   {}   ≡

```
 1   [
 2     {
 3       "imageUrl": "https://cdn.sanity.io/images/7xt4qcah/production
              /2219cafc285ec13a2ed3f88aa36cbea852a11735-305x375.png",
 4       "price": 210,
 5       "tags": [
 6         "rustic ",
 7         "vase ",
 8         "home decor",
 9         "vintage ",
10         "interior design"
11       ],
12       "dicountPercentage": 10,
13       "description": "Bring the charm of nature into your home with the Rustic Vase
              Set. Perfect for those who appreciate timeless beauty and a warm, inviting
              atmosphere, this set of vases adds a touch of rustic elegance to any space.
              Crafted with care and attention to detail, these vases are designed to evoke
              the essence of vintage craftsmanship while seamlessly complementing both
              modern and traditional decor styles.\n\nThe Rustic Vase Set features a
              collection of three uniquely designed vases, each with its own character.
              Their earthy tones, textured finishes, and artisanal touch capture the
              essence of the countryside, making them ideal for showcasing fresh flowers,
              dried arrangements, or simply as stand-alone decor pieces. Whether placed on
              a mantel, coffee table, or dining area, these vases effortlessly enhance the
```

Mobile responsive:

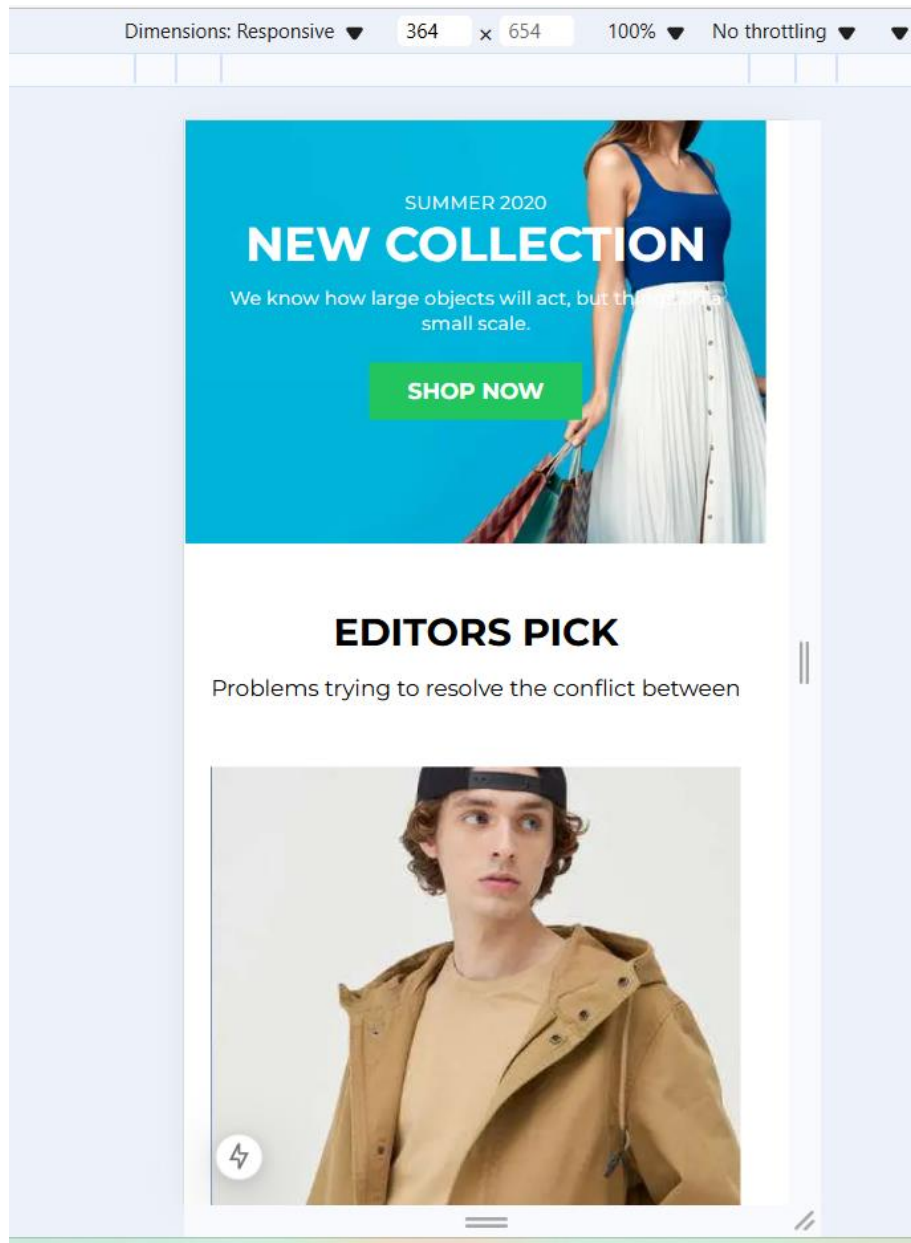For sm-screen

;
Marble Ease
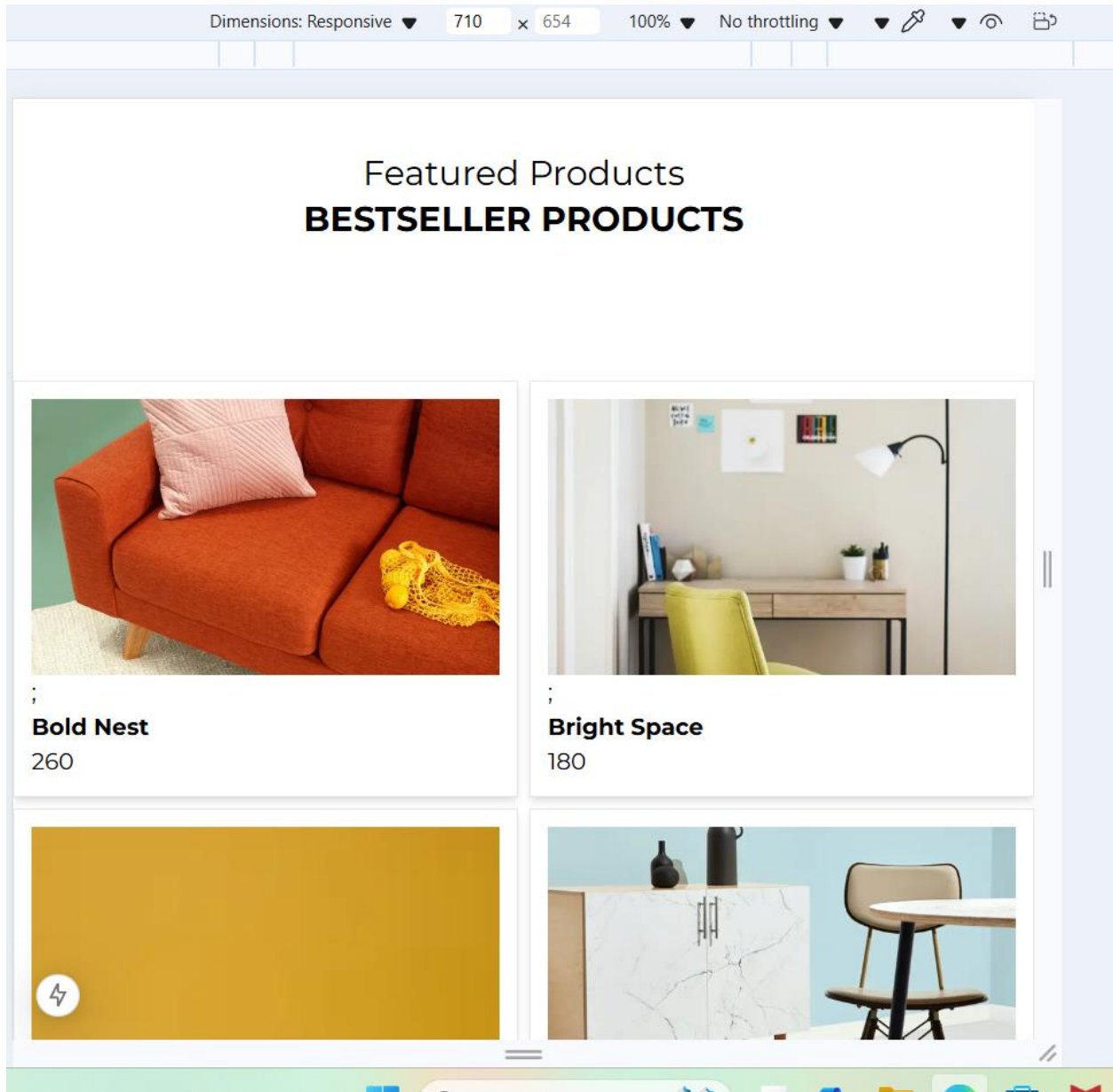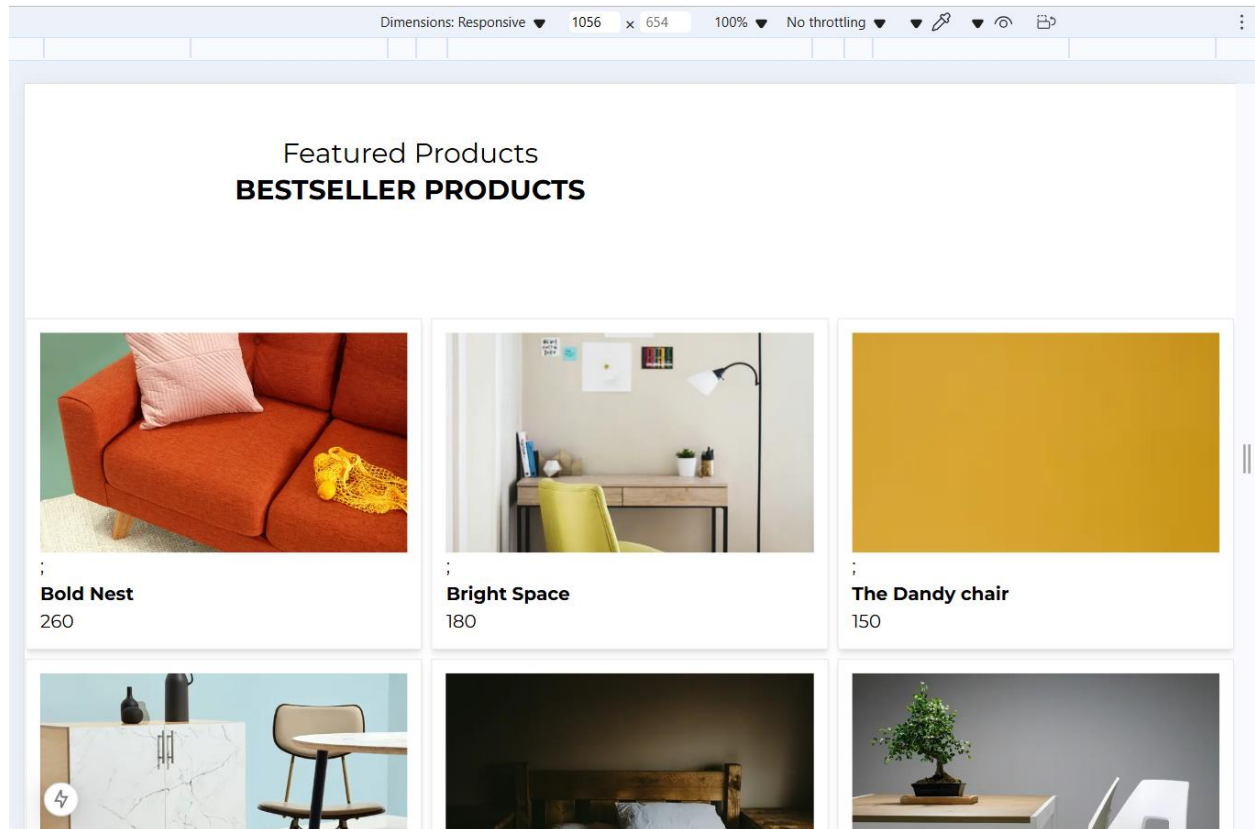
419

;
Bed

250

;
Zen Table

2

SUMMER 2020

NEW COLLECTION

We know how large objects will act, but th small scale.

SHOP NOW

EDITORS PICK

Problems trying to resolve the conflict between

For md-screen

Featured Products
BESTSELLER PRODUCTS

;
Bold Nest

260

;
Bright Space

180

For lg-screen

Featured Products
BESTSELLER PRODUCTS

;
Bold Nest
260

;
Bright Space
180

;
The Dandy chair
150

⚡

TESTING REPORT:

Test Case ID	Test Case description	Test steps	expected result	Actual result	Status	Severity level	Remarks
TC001	Validate product listing page	Open product page > Verify products	Products displayed correctly	Products displayed correctly	Passed	high	pass
TC002	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error message	Error message shown	Passed	medium	pass
Tc003	Check cart functionality	Add product to cart > Verify cart contents	Cart updates with added product	cart added as expected	Passed	high	Work as expected

TC004	Ensure responsiveness on mobile	Resize browser window > Check layout	Layout adjusts properly to screen size	Responsive layout working as intended	Passed	medium	Test successfully

Use lighthouse for testing:

79	83	100	100
Performance	Accessibility	Best Practices	SEO

79
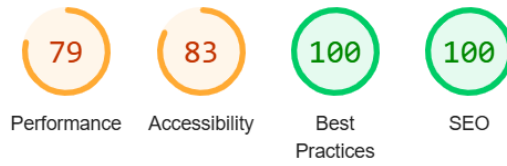
Performance

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

▲ 0–49   ■ 50–89   ● 90–100
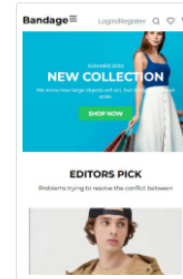
METRICS   Expand view

● First Contentful Paint   ▲ Largest Contentful Paint

0.9 s   **5.3 s**

METRICS   Expand view

● First Contentful Paint   ▲ Largest Contentful Paint
  0.9 s   5.3 s

● Total Blocking Time   ● Cumulative Layout Shift
  130 ms   0

● Speed Index
  1.2 s

[⊞ View Treemap]
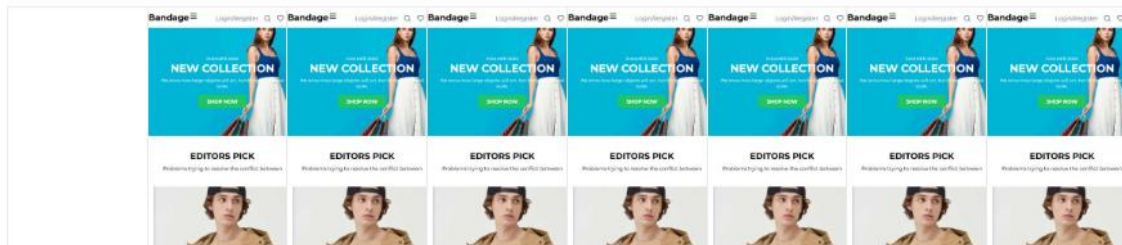
Show audits relevant to: [All] FCP LCP TBT

DIAGNOSTICS

▲ Largest Contentful Paint element   5.250 ms   ⌄

83

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

▲ Buttons do not have an accessible name   ⌄

These are opportunities to improve the semantics of the controls in your application. This may enhance the experience for users of
assistive technology, like a screen reader.

CONTRAST

▲ Background and foreground colors do not have a sufficient contrast ratio.   ⌄

These are opportunities to improve the legibility of your content.

100

SEO

These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on Core Web Vitals. Learn more about Google Search Essentials.

ADDITIONAL ITEMS TO MANUALLY CHECK (1)   Hide

○   Structured data is valid   ⌄

Run these additional validators on your site to check additional SEO best practices.

PASSED AUDITS (8)   Show

NOT APPLICABLE (2)   Show

📅 Captured at Feb 17, 2025, 9:47   🖥 Emulated Moto G Power with   👥 Single page session

100

Best Practices

TRUST AND SAFETY

○   Ensure CSP is effective against XSS attacks   ⌄

○   Use a strong HSTS policy   ⌄

○   Ensure proper origin isolation with COOP   ⌄

GENERAL

▲   Missing source maps for large first-party JavaScript ⌄

PASSED AUDITS (14)   Show

CONTRAST

⚠ Background and foreground colors do not have a sufficient contrast ratio.   ⌄

These are opportunities to improve the legibility of your content.

TABLES AND LISTS

⚠ List items (`<li>`) are not contained within `<ul>`, `<ol>` or `<menu>` parent elements.   ⌄

These are opportunities to improve the experience of reading tabular or list data using assistive technology, like a screen reader.

NAVIGATION
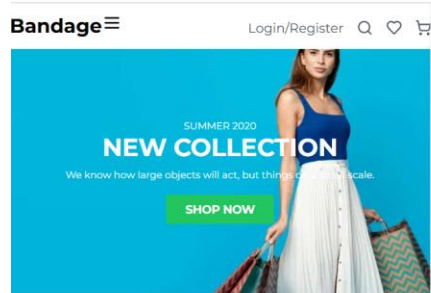
⚠ Heading elements are not in a sequentially-descending order   ⌄

These are opportunities to improve keyboard navigation in your application.

ADDITIONAL ITEMS TO MANUALLY CHECK (10)   Show

Developer Resources

Performance Moniter

Security