

HACKATHON 03

DAY 05

ELEVATING TESTING,
DEBUGGING, AND BACKEND
CHALLENGES

Key Milestones:

In this phase, we focus on ensuring that the **shop.co** ecommerce market place is polished and deployment-ready. This includes:

1. Conducting rigorous testing to validate system performance.
2. Implementing advanced error management mechanisms.
3. Optimizing performance metrics and improving accessibility.
4. Ensuring device and browser adaptability.
5. Creating detailed documentation summarizing progress and results.

Action Plan

Functional Testing

- **Goal:** Ensure every feature operates seamlessly.
- **Areas Evaluated:**
 - **Navigation Flow:** Validate that menu links are operational.
 - **Product Page:** Confirm accurate product filtering and display.
 - **Cart Operations:** Test addition, removal, and updates.
 - **User Account Functions:** Validate registration and profile management.
 - **Checkout Workflow:** Simulate payments and order completions.

Tools Employed:

- **Postman:** API testing.
- **Jest and Enzyme:** For UI component tests.
- **Cypress:** End-to-end workflow validation.

Test cases executed and their results.

1. Test Case ID: TC001

Test Case Description: Validate Product Listing Page Test

Steps: Open Products Page > Validate Products Expected

Result: Products Display Successfully Actual Result: Products

Display Successfully Severity Level: Low Assigned To

Remarks: No Issue Found



T-SHIRT WITH TAPE DETAILS

★★★★★

\$120



SKINNY FIT JEANS

★★★★★

\$120 ~~\$200~~



CHECKERED SHIRT

★★★★★

\$120



SLEEVE STRIPED T-SHIRT

★★★★★

\$120 ~~\$200~~

2. Test Case ID: TC002

Test Case Description: Test API Error Handling

Test Steps: Disconnect Gorq Query > Refresh Page

Expected Result: Show Error Message on Screen

Actual Result: Show Error Message on Screen

Severity Level: Low

Remarks: Handle Gracefully

3. Test Case ID: TC003

Test Case Description: Check Cart Functionality

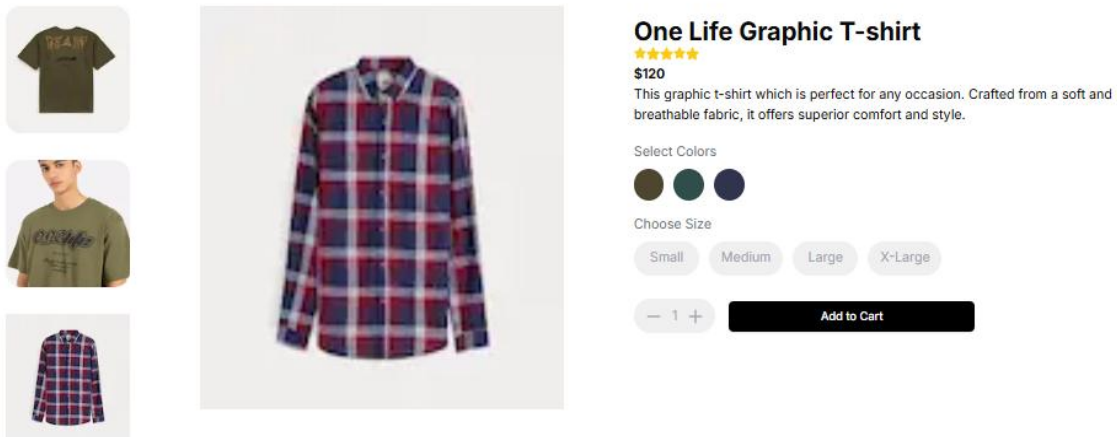
Test Steps: Add To Cart > Navigate To Cart

Expected Result: Displaying Products On Cart

Actual Result: Displaying Products On Cart

Severity Level: Medium

Remarks: Successfully



4. Test Case ID: TC004

Test Case Description: Ensure Responsiveness On Mobile

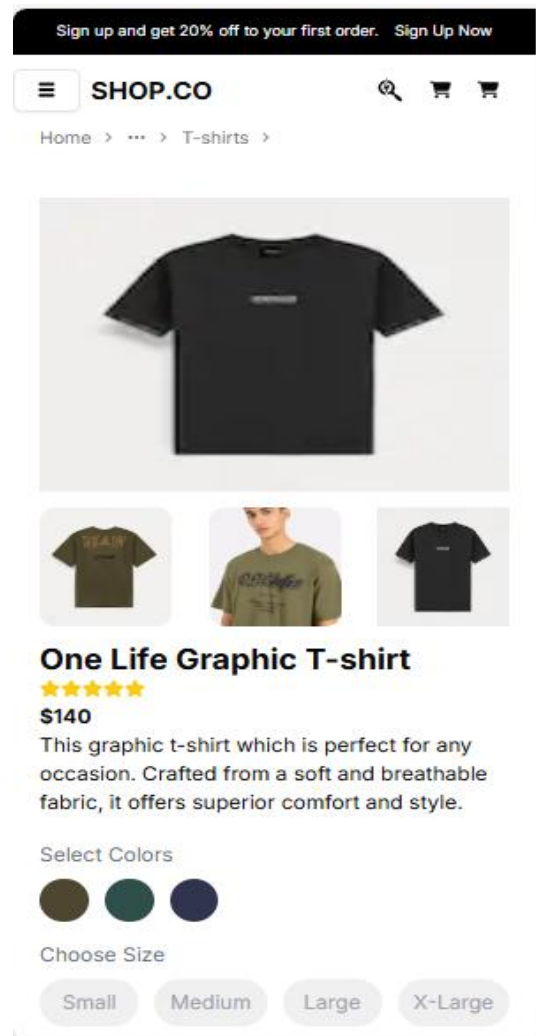
Test Steps: Inspect > Device Toolbar > Select Mobile Device

Expected Result: Showing Content according to the device

Actual Result: Showing Content according to the device

Severity Level: Medium

Remarks: Responsive



6. Test Case ID: TC005

Test Case Description: Validate Search Bar

Test Steps: Search Those Items which has not in sanity

Expected Result: Showing Dropdown > No Product Found

Actual Result: Dropdown not showing while searching irrelevant items

Severity Level: High

Remarks: Don't show error



6. Test Case ID: TC006

Test Case Description: Validate Dynamic Product Detail Pages

Test Steps: Open Product Page > Click to any product card

Expected Result: Open Dynamic Product Detail Pages

Actual Result: Open Dynamic Product Detail Pages

Severity Level: Low

Remarks: Successfully

One Life Graphic T-shirt



\$140

This graphic t-shirt which is perfect for any occasion. Crafted from a soft and breathable fabric, it offers superior comfort and style.

Select Colors



Choose Size

Small Medium Large X-Large



Add to Cart

7. Test Case ID: TCO07

Test Case Description: Cross Browsing

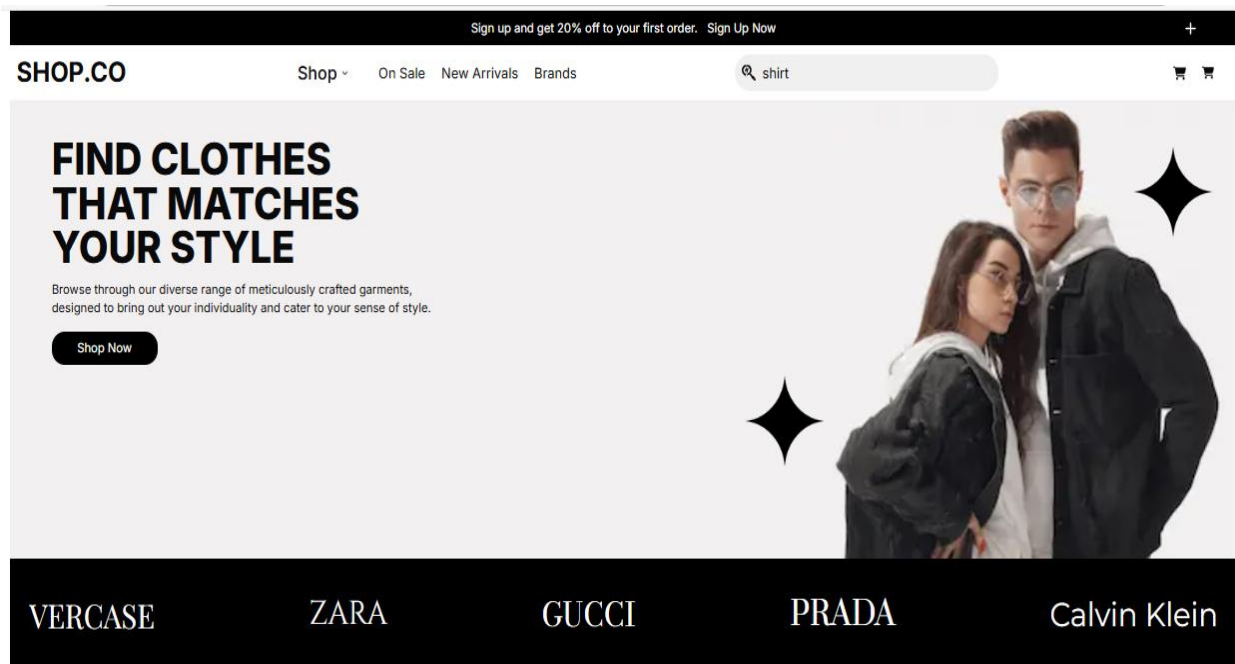
Test Steps: Open our website on different Browsers such as Yahoo

Expected Result: Working Correctly on every browser

Actual Result: Working Correctly on every browser

Severity Level: Low

Remarks: Successfully



Performance optimization steps taken



Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

▲ 0-49 ■ 50-89 ● 90-100



Testing Summary Table

Test No.	Feature Tested	Expected Outcome	Actual Outcome	Status	Priority	Notes
T001	Navigation consistency	Links direct accurately	Successful	Pass	Low	None
T002	Product visibility	Accurate product rendering	Verified	Pass	Medium	None
T003	Dynamic Working	Pages Rendering Without Issue	Functional	Pass	High	None
T004	Cart functionality	Seamless add/remove operation	Confirmed	Pass	High	None
T005	Login/SignUp	Under Construction	404	Fail	Low	None
T006	Performance benchmarks	Score ≥ 98	Archived 94	Fail	Medium	Requires Tuning
T007	Accessibility	Score ≥ 90	Reached 90	Pass	Medium	Maintain compliance
T008	SEO optimization	Score ≥ 90	Archived 100	Pass	High	None