Test Summary Report

Project Name: OpenCart E-commerce Site
Version: 1.0
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1. Introduction

This document summarizes the testing activities performed for the OpenCart e-commerce platform, covering functional, edge-case, boundary-value, and negative testing. The goal was to validate core user journeys, including registration, login, cart management, product search, and checkout flows, while excluding payment processing due to environmental constraints.

2. Test Scope

In-Scope Modules:

- **Login/Registration** (14 test cases)

- **Cart Functionality** (16 test cases)

- **Product Module** (13 test cases)

- **Wishlist Module** (10 test cases)

- **Comparison Module** (7 test cases)

- **Edge Cases** (6 test cases)

- **Boundary Value Analysis** (8 test cases)

- **Negative Testing** (5 test cases)

Out-of-Scope:

- Payment gateway integration

- Mobile responsiveness

- API/Performance testing

- Security testing (XSS, SQL injection)

3. Test Execution Overview

Category	Total Test Cases	Passed	Failed	Pending	Pass Rate
Functional (Login/Cart/Product)	53	38	12	3	71.7%
Edge Cases	6	4	2	0	66.7%
Boundary Value Analysis	8	4	4	0	50%
Negative Testing	5	2	2	1	40%
Total	**79**	**48**	**20**	**4**	**60.8%**

4. Key Findings

Defects by Severity

Priority	Count	Examples
High	12	- TC_LOGIN_009 (Password visibility toggle missing) - TC_CART_016 (No error for missing variants) - TC_PROD_002 (Price filtering not functional)
Medium	6	- TC_PROD_WL_010 (No wishlist sorting) - TC_BVA_PAYMENT_06 (CVV field missing)
Low	2	- TC_LOGIN_010 (Social login not supported) - TC_COMP_007 (Print/share feature missing)

Critical Failures:

1. **Cart Functionality:**

   o No validation for maximum item quantity (TC_CART_010).

   o Missing error messages for unselected product variants (TC_CART_016).

2. **Product Module:**

   o Price-range filtering not implemented (TC_PROD_002).

   o Inconsistent variant selection (TC_PROD_009).

3. **Negative Testing:**

   o SQL injection attempts not blocked (TC_NEG_REG_05 – Pending).

5. Test Environment

- **OS:** Windows 11, macOS Ventura 13.5

- **Browsers:** Chrome (v125), Edge (v124)

- **Network:** 100Mbps LAN, 5G

6. Exit Criteria Evaluation

Criteria	Status	Remarks
Critical bugs resolved (Severity 1-2)	**Not Met**	12 high-priority defects unresolved.
Test coverage ≥90%	**Partially Met**	60.8% pass rate; focus areas need retesting.

7. Recommendations

1. **Urgent Fixes:**

    o   Implement input validation for cart quantity (TC_CART_010).

    o   Add error handling for missing product variants (TC_CART_016).

2. **Enhancements:**

    o   Introduce price-range filters (TC_PROD_002).

    o   Standardize variant selection UI (TC_PROD_009).

3. **Future Testing:**

    o   Include payment gateway testing post-environment setup.

    o   Conduct security testing (SQL injection, XSS).

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8. Conclusion

Testing confirmed core functionalities (login, cart, checkout) are stable but revealed critical gaps in input validation and filtering. While 60.8% of tests passed, high-priority defects must be addressed before release. A retest cycle is recommended post-fixes to achieve the target 90% pass rate.

Approval:
Name: _____
Role: QA Lead
Date: _____

Attachments:

- Detailed Test Cases (TestCases.xlsx)

- Bug Reports (JIRA/Excel)

- Test Plan (TestPlan.docx)