**Test Summary Report**

**Project Name:** OpenCart E-commerce Site  
**Version:** 1.0  
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**Date:** 2025-02-26

**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:**
   * No validation for maximum item quantity (TC\_CART\_010).
   * Missing error messages for unselected product variants (TC\_CART\_016).
2. **Product Module:**
   * Price-range filtering not implemented (TC\_PROD\_002).
   * Inconsistent variant selection (TC\_PROD\_009).
3. **Negative Testing:**
   * 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:**
   * Implement input validation for cart quantity (TC\_CART\_010).
   * Add error handling for missing product variants (TC\_CART\_016).
2. **Enhancements:**
   * Introduce price-range filters (TC\_PROD\_002).
   * Standardize variant selection UI (TC\_PROD\_009).
3. **Future Testing:**
   * Include payment gateway testing post-environment setup.
   * Conduct security testing (SQL injection, XSS).

**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)