Project Name: OpenCart

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1. Overview

This test plan defines the testing strategy and scope for OpenCart, an eCommerce platform offering apparel, electronics, and home goods. It aims to ensure a reliable, secure, and user-friendly experience across web and mobile platforms.

2. Scope of Testing

In Scope:

- User registration and login (email, social login)

- Product browsing and search

- Cart and Wishlist functionality

- Checkout process (guest and registered)

- Payments (credit/debit cards, mobile wallets)

- Order management (tracking, returns)

- Notifications (email/SMS)

Out of Scope:

- Legacy browser compatibility (e.g., IE11)

- Internal system analytics

3. Objectives

- Validate all core workflows, from product discovery to payment

- Ensure system stability under concurrent users

- Check for security vulnerabilities (SQL injection, XSS)

- Confirm compatibility across devices and major browsers

4. Test Strategy

- **Manual Testing**: Functional tests, UI validation, exploratory tests

- **Automated Testing**: Regression and smoke tests via Selenium

- **Performance Testing**: Load testing using JMeter

- **Security Testing**: Run scans with OWASP ZAP

5. Test Environment

- **Environments**: Staging and Pre-Prod servers

- **Devices**: iOS, Android, desktop browsers (Chrome, Safari, Firefox, Edge)

- **Dependencies**: Payment gateway sandbox, SMTP server

6. Test Scenarios

- Validate the working of Register Account functionality
- Validate the working of Login functionality
- Validate the working of Search functionality
- Validate the working of Forget Password functionality
- Validate the working of Logout functionality
- Validate the working of Order History functionality
- Validate the working of Transactions functionality
- Validate the working of Downloads functionality
- Validate the working of Wish List functionality
- Validate the working of Address Book functionality
- Validate the working of Edit Account functionality
- Validate the working of Change Password functionality
- Validate the working of Recurring Payment functionality
- Validate the working of Returns functionality
- Validate the working of Reward Points functionality
- Validate the working of Newsletter functionality
- Validate the working of My Affiliate Account functionality
- Validate the working of Currency functionality
- Validate the working of Header functionality

- Validate the working of Footer functionality
- Validate the working of Product Display Page functionality
- Validate the working of Shopping Cart functionality
- Validate the working of Checkout functionality
- Validate the working of Contact Us functionality
- Validate the working of Brand functionality
- Validate the working of Gift Certificate functionality
- Validate the working of Special Offers functionality
- Validate the working of Add to Cart functionality
- Validate the working of Add to Wish List functionality
- Validate the working of Compate Product functionality
- Validate the working of Review functionality
- Validate the working of Home Page functionality
- Validate the working of Menu Bar functionality
- Validate the working of Product Information Page functionality

7. Resources & Responsibilities

- **QA Engineer**: Manual/automated test execution
- **Test Lead**: Review test cases, oversee coverage
- **Developers**: Bug resolution, deployment support
- **Tools Used**: JIRA for bug tracking, TestRail for test management

8. Schedule

Phase	Timeline
Test Case Development	June 22 – June 24
Test Execution	June 25 – July 1
Regression Testing	July 2 – July 3
Final Review & Signoff	July 4

9. Entry & Exit Criteria

Entry: All features deployed to staging, test data available
Exit: 95%+ test case pass rate, no critical bugs open

10. Risks and Mitigation

Risk	Mitigation Plan
Delays in third-party APIs	Mock API responses where possible
Design changes mid-testing	Daily syncs with dev/design teams