

Test Plan

Project Name: Magebit Magento 2 Demo Store

Application URL: <https://magento2-demo.magebit.com/>

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1. Objective:

The objective of this test plan is to validate that the Magebit Magento 2 Demo Store functions correctly and provides a seamless user experience across core eCommerce workflows.

Testing will focus on ensuring that end users can successfully register, log in, browse products, manage their shopping cart and complete checkout processes without encountering critical defects.

Note: This document serves to demonstrate systematic manual QA testing capabilities on a live eCommerce platform.

2. Scope:

In Scope:

- User Registration and Login functionality
- Product browsing and Search
- Shopping Cart management
- Checkout process
- UI/UX across devices (responsive design, mobile gestures, touch interactions)
- Form validation and error handling

Out of Scope:

- Payment gateway integration
- Performance / Load testing
- Security penetration testing
- Backend API testing
- Database validation

3. Test Approach & Strategy:

- Smoke testing to verify basic functionality of major features
- Functional testing of core user workflows
- Boundary value analysis for form fields and input limits
- Cross device testing (desktop, mobile & responsive design)
- Negative testing to validate error handling and input validation
- Exploratory testing sessions focused on:
 - User experience and usability
 - Error handling and recovery mechanisms
 - Workflow interruptions and data persistence
 - Edge cases and unexpected behaviors

4. Environment:

- OS: Windows 11 Home, iOS 18.7.1
- Devices: Desktop, Mobile (iPhone)
- Browser: Chrome & Safari
- Network: WiFi connection

5. Test Data:

Category	Input Type	Example Values	Notes / Purpose
User Credentials	Valid Email	testuser@example.com	Successful login & registration
	Invalid Email	invalid@email	Validation testing
	Valid Password	QAtest123	Meets password complexity requirements
	Weak Password	123	Password strength validation
Product Search	Valid Product	"backpack", "shirt"	Expected search results
	Invalid Product	"invalidproductxyz"	No results handling
Cart Operations	Quantity Range	0, 1, 5, 99, 999	Boundary value testing
Security Edge Cases	SQL Injection	' OR '1'='1; --	Input sanitization
	XSS Attempt	<script>alert('XSS')</script>	XSS protection

Note: This table provides test data examples. For complete test data specifications including all edge cases and boundary values, refer to the Test_Data document.

6. Entry Criteria:

- 1. Testable build deployed to demo environment
- 2. Stable network connectivity
- 3. Test data prepared and available
- 4. Test cases reviewed and approved

7. Exit Criteria:

- 1. All planned test cases executed
- 2. 95% of test cases completed with documented results
- 3. All identified defects documented with severity, steps to reproduce, and evidence
- 4. Test summary report completed with findings and recommendations

8. Risk Assessment:

- Limited test environment control (High Impact)
- Time constraints for comprehensive testing (Medium Impact)
- Demo data reset affecting test continuity (Low Impact)
- No backend access for root cause analysis (Medium Impact)

9. Defect Severity Levels:

- Critical: Blocks core functionality
- High: Major feature not working
- Medium: Minor issue with workaround
- Low: Cosmetic or minor UI issues

10. Deliverables:

1. Test Plan
2. Test Cases
3. Bug Report with:
 - Defect descriptions
 - Severity classification
 - Steps to reproduce
 - Screenshots / evidence
4. Test Summary Report

11. Timeline:

- 1) Day 1: Test Planning & Preparation
- 2) Days 2-3: Test Case Design & Review
- 3) Days 4-6: Test Execution & Bug Reporting
- 4) Day 7: Additional Exploratory Testing
- 5) Day 8: Test Summary & Documentation

12. Resources Needed:

- Access to <https://magento2-demo.magebit.com/>
- Test data preparation
- Bug tracking tool: Excel / Google Sheets
- Screen capture tool for evidence collection
- Devices for cross device testing

13. Suspend testing if:

- Environment becomes unstable
- Critical bug blocks major functionality

14. Resume when:

- Environment stability is restored
- Blocking issues are resolved or workarounds identified

15. Testing Constraints:

- This is a third party demo environment with no access to fix or verify bug resolutions
- Testing focuses on defect identification and documentation rather than verification cycles
- Defects will be documented in their current state as of the test execution date
- No retesting / regression cycle will be performed as bug fixes are not within scope

16. Mitigation:

- Document all test scenarios with screenshots and detailed steps
- Use consistent test data patterns for reproducibility
- Focus on core user workflows most critical to business operations
- Maintain flexible test approach to adapt to environment changes

17. Success Metrics:

- Test Execution Rate: 100% of planned test cases
- Documentation Quality: All defects include severity, steps, and evidence
- Test Coverage: 95%+ coverage of core user workflows
- Defect Detection: All critical and high severity issues documented