

# Test Plan

**Project Name:** Demo ECommerce Web App

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**Date:** 04/11/2025

**Application Under Test (AUT):** <https://magento2-demo.magebit.com/>

## 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.

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

## 2. Scope:

### In Scope:

- Register and Login functionality
- Browse and Search Products
- Shopping Cart management
- Checkout process
- UI/UX across devices
- Form validation

### Out of Scope:

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

## 3. Test Approach & Strategy:

- Smoke testing for each build
- Regression testing for fixed bugs
- Exploratory testing sessions (2-hour timeboxes)
- Boundary value analysis for form fields
- Cross-browser compatibility checks

## 4. Environment:

- OS: Windows 11 Home (Desktop), iOS 18.7.1 (Mobile)
- Browser: Chrome & Safari

## 5. Network: Wifi

## 6. Test Scenarios / Features to Cover:

- User Registration & Authentication
- Product Catalog & Search
- Shopping Cart Operations
- Checkout Flow
- Responsive Design Validation

## 7. Test Data:

Category	Input Type	Example Values	Notes / Purpose
User Credentials	Valid Email	testuser@example.com	Used for successful login and registration tests
	Invalid Email	invalid@email	Used to verify validation and error handling
	Valid Password	QATest123	Meets password complexity requirements
	Weak Password	123	Test password strength validation
Product Search	Valid Product Names	"backpack", "shirt"	Expected to return valid search results
	Invalid Product Name	"invalidproductxyz"	Expected to return "No results found"
Security Edge Cases	SQL Injection Attempt	' OR '1'='1; DROP TABLE use	Used to test input sanitization and SQL injection protection
	XSS Attempt	<script>alert('XSS')</script>	Used to test protection against cross-site scripting vulnerabilities

## 8. 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

## 9. Exit Criteria:

1. All critical / high priority bugs fixed and verified
2. 95% of test cases executed with pass rate
3. Test summary report completed
4. Product owner sign off (simulated)

**10. Risk Assessment:**

- Limited test environment availability (High Impact)
- Time constraints for comprehensive testing (Medium Impact)
- Potential data reset on demo environment (Low Impact)
- No access to backend systems (Medium Impact)

**11. Mitigation:**

- Focus on high priority test areas first
- Document all findings thoroughly
- Use consistent test data

**12. Defect Severity Levels:**

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

**13. Bug Reporting Tool:** Excel/Google Sheets template**14. Deliverables:**

1. Test Plan
2. Test Cases
3. Bug Report

**15. Timeline:**

- 1) Test Planning & Preparation (Day 1)
- 2) Test Case Design (Days 2-3)
- 3) Test Execution (Days 4-6)
- 4) Bug Reporting & Retesting (Day 7)
- 5) Test Closure & Documentation (Day 8)

**16. Resources Needed:**

- Access to test environments
- Test data preparation
- Bug tracking system

**17. Suspend testing if:**

- Environment becomes unstable
- Critical bug blocks major functionality

**18. Resume when:**

- Issues are resolved
- Stable build is available