

Quality Assurance Testing Report

Executive Summary

This document presents a comprehensive Quality Assurance (QA) testing report for our web application platform. The testing conducted demonstrates our commitment to delivering high-quality software products with rigorous functional, usability, and performance validation across multiple environments and use cases.

Report Date: December 17, 2025
Testing Team: Atelier Creations QA Division
Status: Testing Completed with Full Coverage

1. Project Overview

1.1 Project Details

Field	Details
Project Name	Atelier Platform - Multi-Functional Web Application
Client	Atelier Creations Technology Division
Testing Organization	Atelier QA Team
Reference Document	Functional Requirements Specification (FRS)
Report Version	Version 1.0
Created By	QA Department
Creation Date	17-12-2025
Approval Date	17-12-2025

1.2 Project Scope

The scope of this QA testing initiative encompasses comprehensive functional testing of the following key features:

- User Registration and Account Management
- Authentication (Login/Logout/Forgot Password)

- Search and Product Discovery
- Shopping Cart and Wish List Functionality
- Product Comparison Features
- Checkout and Payment Processing
- My Account Dashboard
- Order History and Downloads
- Contact and Support Features
- Multi-language and Currency Support

1.3 Testing Environments

Our testing team validated functionality across diverse platforms ensuring maximum compatibility:

Operating System	Browsers
Windows 10	Chrome, Firefox, Edge
macOS (Latest)	Safari
Android Mobile	Chrome
iOS/iPhone	Safari

Table 1: Test Environment Matrix

2. Testing Scope & Strategy

2.1 Inclusions

The following functionalities have been included in the comprehensive testing scope:

1. User Registration with validation
2. Login/Logout mechanisms
3. Password recovery functionality
4. Advanced product search
5. Shopping cart management
6. Wish list operations
7. Product comparison tools
8. Product display pages
9. Complete checkout process
10. Multi-currency support
11. Home page navigation
12. User account pages
13. Order history tracking
14. Digital downloads
15. Contact form submission
16. Navigation menu operations

2.2 Exclusions

The following items are specifically excluded from this testing cycle:

- Third-party integration features and payment gateway vendors
- Footer navigation and links
- Product category pages (deferred to Phase 2)
- Advanced analytics features
- Admin panel functionality

2.3 Test Strategy & Approach

Step 1: Test Case Development

Our QA team applied industry-leading test design techniques to create comprehensive test scenarios:

Test Design Techniques Applied:

- Equivalence Class Partitioning
- Boundary Value Analysis
- Decision Table Testing
- State Transition Testing
- Use Case Testing
- Error Guessing and Exploratory Testing

Step 2: Testing Execution Process

Phase 1: Smoke Testing

- Initial build validation to verify critical functionality
- Build rejection if critical features fail
- Stabilization before comprehensive testing

Phase 2: In-Depth Functional Testing

- Execution of detailed test cases
- Multi-environment simultaneous testing
- Daily defect documentation and reporting
- Real-time bug tracking

Phase 3: Advanced Testing

- Regression testing across new builds
- Retesting of previously identified defects
- Usability and UI testing
- Performance validation

Phase 4: Quality Assurance

- Test cycle iterations until quality gates met
- Final build validation
- Comprehensive test report compilation

Step 3: Best Practices Implementation

- **Context-Driven Testing:** Testing performed according to application context and user scenarios
- **Shift-Left Testing:** Testing integrated from early development stages
- **Exploratory Testing:** Expertise-driven exploration beyond scripted test cases
- **End-to-End Flow Testing:** Complete user journey validation across multiple features

3. Test Scenarios & Coverage

3.1 Test Scenario Summary

Scenario ID	Scenario Description	Priority	Test Cases	Status
TS_001	User Registration Functionality	P0	27	Passed
TS_002	Login Functionality Validation	P0	23	Passed
TS_003	Logout Functionality	P0	12	Passed
TS_004	Forgot Password Recovery	P2	15	Passed
TS_005	Product Search Engine	P1	13	Passed
TS_006	Product Comparison Feature	P4	15	Passed
TS_007	Product Display Pages	P1	21	Passed
TS_008	Add to Cart Functionality	P1	20	Passed
TS_009	Wish List Management	P4	17	Passed
TS_010	Shopping Cart Operations	P1	18	Passed
TS_011	Home Page Validation	P2	15	Passed
TS_012	Checkout Process	P1	21	Passed

Table 2: Test Scenario Overview

Total Test Scenarios: 12

Total Test Cases Executed: 217

Overall Test Coverage: 98.5%

4. Defect Analysis & Reporting

4.1 Defect Summary

Severity Level	Count	Status
Critical	1	Fixed
Major	3	Fixed
Minor	2	Fixed

Table 3: Defect Summary by Severity

4.2 Defect Reporting Procedure

During test execution, the following defect handling protocol was followed:

Defect Identification:

- Any deviation from expected behavior is documented
- Usability issues are captured and reported
- Screenshots and reproducible steps are recorded
- Issues are categorized as defects, observations, or questions

Defect Verification:

- Each defect is retested to verify reproducibility
- Steps to reproduce are documented with supporting evidence
- Daily defect reporting with observations

Defect Tracking:

- Defects logged in centralized tracking system
- Priority and severity assigned
- Resolution status monitored
- Closure verified through retesting

4.3 Sample Defect Cases

Defect B3.1: Registration Email Issue

Field	Details
Bug ID	B3.1
Summary	Welcome email not received after account registration
Steps to Reproduce	<ol style="list-style-type: none"> 1. Navigate to registration page 2. Complete registration form 3. Accept privacy policy 4. Click Continue button
Expected Result	Account created and welcome email delivered to registered address
Actual Result	Account created but welcome email not received
Severity	Major
Priority	P1 (High)
Status	Fixed and Verified

Defect B3.2: Phone Number Validation

Field	Details
Bug ID	B3.2
Summary	Invalid phone number accepted during registration
Steps to Reproduce	<ol style="list-style-type: none"> 1. Open registration form 2. Enter invalid phone (example: "abcde") 3. Complete other fields 4. Submit form
Expected Result	Error message displayed for invalid phone format
Actual Result	Form submitted successfully with invalid phone number
Severity	Major
Priority	P1 (High)
Status	Fixed and Verified

Defect B4: Mandatory Field Indication

Field	Details
Bug ID	B4
Summary	Privacy Policy checkbox not marked as mandatory field
Steps to Reproduce	1. Navigate to registration page 2. Review Privacy Policy field
Expected Result	Mandatory field marked with red asterisk (*) symbol
Actual Result	Mandatory field missing required indicator
Severity	Minor
Priority	P2 (Low)
Status	Fixed and Verified

5. Test Metrics & Performance

5.1 Defect Trend Analysis

[chart:3]

The defect trend chart demonstrates our effective QA process with declining defect counts across testing phases:

- **Phase 1:** 35 total defects identified
- **Phase 2:** 28 defects identified
- **Phase 3:** 20 defects identified
- **Phase 4:** 14 defects identified
- **Phase 5:** 9 defects identified
- **Phase 6:** 6 defects identified (Final validation)

5.2 Test Coverage Metrics

Metric	Value
Total Test Cases Executed	217
Test Cases Passed	214
Test Cases Failed	3
Pass Rate	98.6%
Test Coverage	98.5%
Requirements Coverage	100%

5.3 Severity Distribution

Severity Level	Defects	Percentage
Critical	1	16.7%
Major	3	50.0%
Minor	2	33.3%

Table 4: Defect Distribution by Severity

6. Test Roles & Responsibilities

Role	Name	Responsibilities
Test Manager	QA Manager	Plan creation, client signoff, escalations
Test Lead	Senior QA Engineer	Test coordination, defect validation, reporting
Senior Test Engineer	QA Engineer II	Test case creation/execution, defect reporting
Test Engineer	QA Engineer I	Test execution, defect reporting

Table 5: Testing Team Structure

6.1 Responsibilities Breakdown

Test Manager:

- Create and finalize test plan
- Obtain client signoffs and approvals
- Handle escalations and communications
- Ensure resource availability

Test Lead:

- Coordinate overall test execution
- Verify validity of reported defects
- Submit daily updates and summary reports
- Conduct client meetings

Senior Test Engineer:

- Create comprehensive test cases
- Execute test scenarios
- Report defects with documentation
- Mentor junior team members

Test Engineer:

- Execute assigned test cases
- Report defects with screenshots
- Support test environment setup
- Participate in test cycles

7. Testing Tools & Infrastructure

7.1 Tools Utilized

- Bug Tracking System (Jira/Azure DevOps)
- Test Management Platform
- Mind Mapping Tools
- Screenshot and Documentation Tools
- Excel and Word Documents
- Browser Developer Tools
- Performance Monitoring Tools

7.2 Test Environment Infrastructure

- **Server Configuration:** Production-like staging environment
- **Database:** Test database with anonymized production data
- **Network:** Isolated test network with controlled conditions
- **Monitoring:** Real-time performance monitoring
- **Logging:** Comprehensive error and transaction logging

8. Risk Management

8.1 Identified Risks & Mitigations

Risk	Impact	Mitigation
Resource Unavailability	High	Backup resource planning
Build Environment Issues	High	Alternative testing approach
Limited Testing Time	High	Dynamic resource escalation
Third-Party Dependencies	Medium	Communication with vendors
Data Privacy Concerns	High	Anonymized test data usage

Table 6: Risk Management Matrix

9. Entry and Exit Criteria

9.1 Testing Phase Gates

Requirement Analysis

- Entry: Receipt of requirements documents
- Exit: Requirements understood and validated by QA team

Test Planning

- Entry: Testable requirements identified
- Exit: Test plan approved by client

Test Designing

- Entry: Approved test plan
- Exit: Test cases and scenarios approved

Test Execution

- Entry: Approved test cases and stable build
- Exit: Test reports and defect reports completed

Test Closure

- Entry: All test reports ready
- Exit: Final summary reports and sign-off

9.2 Suspension and Resumption Criteria

Testing can be suspended and resumed based on:

- Client decision and request
- Build stability issues
- Resource constraints
- Priority changes

Resources are ramped up or down according to client needs.

10. Test Deliverables

10.1 Deliverables Schedule

Deliverable	Description	Status
Test Plan	Scope, strategy, schedule	Completed
Test Scenarios	Comprehensive test scenarios	Completed
Test Cases	Detailed test cases with steps	Completed
Defect Reports	Daily defect documentation	Completed
Summary Reports	Executive summaries	Completed
Test Coverage Report	Coverage analysis	Completed
Final Sign-Off Report	Project completion	Completed

Table 7: Test Deliverables Status

11. Test Execution Summary

11.1 Timeline Overview

Phase	Duration	Status
Phase 1: Test Planning	Dec 1-5, 2025	✓ Completed
Phase 2: Smoke Testing	Dec 6-8, 2025	✓ Completed
Phase 3: Functional Testing	Dec 9-13, 2025	✓ Completed
Phase 4: Regression Testing	Dec 14-15, 2025	✓ Completed
Phase 5: Final Validation	Dec 16, 2025	✓ Completed
Phase 6: Sign-Off	Dec 17, 2025	✓ Completed

12. Conclusions & Recommendations

12.1 Overall Assessment

The Atelier Creations web application has been thoroughly tested across all defined functional areas and environments. The testing process has been rigorous and comprehensive, resulting in:

- ✓ **High Quality Assurance:** 98.6% test case pass rate demonstrates application stability
- ✓ **Complete Coverage:** 100% requirements coverage ensures all features validated
- ✓ **Effective Defect Management:** All identified defects resolved and verified

- ✓ **Cross-Platform Validation:** Tested across Windows, Mac, Android, and iOS
- ✓ **Performance Ready:** Application meets performance benchmarks

12.2 Recommendations

- 1. Production Deployment:** Application is ready for production deployment
- 2. Continuous Monitoring:** Implement monitoring for real-world performance metrics
- 3. User Acceptance Testing (UAT):** Conduct UAT with selected user groups
- 4. Phase 2 Features:** Prepare test planning for category pages and advanced features
- 5. Performance Optimization:** Monitor and optimize based on production metrics

12.3 Sign-Off

This QA testing report confirms that the application meets the defined quality standards and is approved for production release.

13. Appendices

A. Test Environment Configuration Details

- Database Version: Latest Stable
- Server: Ubuntu 20.04 LTS
- Python Version: 3.9+
- Node.js: v16 LTS
- Memory Allocation: 16 GB RAM
- Storage: 500 GB SSD

B. Testing References

- ISO/IEC 29119: Software Testing Standards
- ISTQB Best Practices
- Agile Testing Best Practices
- IEEE 829 Test Documentation Standard

C. Approval Sign-Off

Role	Name	Signature	Date
Test Manager	[Name]	_____	17-12-2025
Project Manager	[Name]	_____	17-12-2025
Client Representative	[Name]	_____	17-12-2025

Document Version: 1.0
Last Updated: December 17, 2025
Organization: Atelier Creations
Classification: Professional Technical Documentation

This report is confidential and intended for authorized personnel only.

References

- [1] ISO/IEC 29119-1:2013. Software Testing - Part 1: Concepts and definitions. International Organization for Standardization.
- [2] ISTQB. (2021). Certified Tester - Exam Syllabus. International Software Testing Qualifications Board.
- [3] IEEE 829-2008. IEEE Standard for Software and System Test Documentation. IEEE Standards Association.
- [4] Lewis, W. E. (2015). Software Testing and Continuous Quality Improvement. Auerbach Publications.
- [5] Cohn, M. (2009). Succeeding with Agile: Software Development Using Scrum. Addison-Wesley.