Test Coverage Report

Tricentis Demo Web Shop

Document Version: 2.0
Prepared By: Lakindu De Silva
Date: December 15, 2025

Executive Summary

Metric	Value
Total Manual Test Cases	40
Automated Test Cases	30
Automated Tests Executed	30
Automated Tests Passed	30
Automated Tests Failed	0
Automation Pass Rate	**100%**
Automation Coverage	**75%**

Automation Coverage by Testing Type

Testing Type	Total TCs	Automated	Manual Only	Auto Pass Rate
Functional Testing	20	16	4	100%
Usability Testing	6	1	5	100%
UI/UX Testing	6	0	6	N/A
Boundary/Negative Testing	8	5	3	100%
Total	**40**	**22**	**18**	**100%**

Coverage by Module/Feature

Module	Requirements	Test Cases	Automated	Passed	Coverage
User Registration	TR-001	7 tests	7	7	100%
User Login/Logout	TR-002	9 tests	9	9	100%
Shopping Cart	TR-004	9 tests	9	9	100%
Checkout	TR-006	5 tests	5	5	100%

Module	Requirements	Test Cases	Automated	Passed	Coverage
Product Search	TR-005	-	0	-	Manual
Product Browsing	TR-003, TR-007	-	0	-	Manual
Navigation & Usability	TR-003	-	0	-	Manual
UI/UX Elements	-	-	0	-	Manual

Requirements Traceability Summary

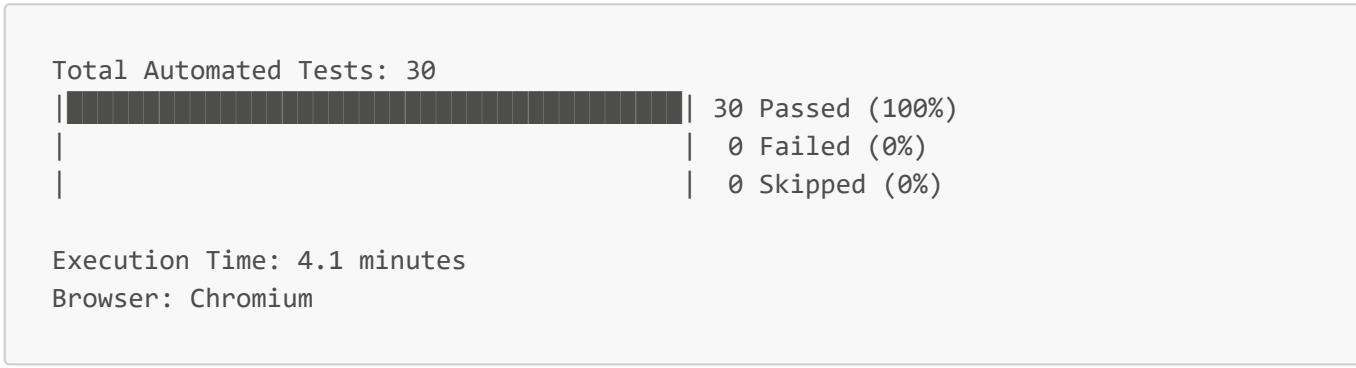| Requirement ID	Requirement Description	Automation Status	Test Result
TR-001	User Registration Must Work Correctly	☑ AT-001 (7)	☑ Pass
TR-002	User Authentication Must Be Secure	☑ AT-002 (9)	☑ Pass
TR-003	Navigation Must Work Correctly	Manual TC021-TC026	☑ Pass
TR-004	Shopping Cart Must Function Properly	☑ AT-003 (9)	⚠ 1 Defect (DEF-001)
TR-005	Product Search Must Return Accurate Results	Manual TC009-TC010	☑ Pass
TR-006	Checkout Process Must Complete Successfully	☑ AT-004 (5)	☑ Pass
TR-007	Product Display Must Be Accurate	Manual TC027-TC032	☑ Pass
TR-008	Form Validations Must Prevent Invalid Data	☑ Covered	☑ Pass

Automation Coverage

Test Suite	Total Tests	Executed	Passed	Failed	Pass Rate
AT-001	7	7	7	0	100%
AT-002	9	9	9	0	100%
AT-003	9	9	9	0	100%
AT-004	5	5	5	0	100%
Total	**30**	**30**	**30**	**0**	**100%**

Automated Test Suites - Detailed Results

Suite ID	Scenario	Tests	Execution Date	Duration	Result
AT-001	User Registration	7	Dec 15, 2025 1:41PM	36.3s	☑ Pass
AT-002	User Login	9	Dec 15, 2025 1:41PM	48.6s	☑ Pass
AT-003	Shopping Cart	9	Dec 15, 2025 1:41PM	61.3s	☑ Pass
AT-004	E2E Checkout	5	Dec 15, 2025 1:41PM	98.7s	☑ Pass

Test Execution Progress

Automation Results (Dec 15, 2025)

```
Total Automated Tests: 30
|███████████████████████████████| 30 Passed (100%)
|                                |  0 Failed (0%)
|                                |  0 Skipped (0%)

Execution Time: 4.1 minutes
Browser: Chromium
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Defect Density

Module	Test Cases	Defects Found	Defect Density
User Management	8	0	0.00
Product Search	2	1	0.50
Product Browsing	4	2	0.50
Shopping Cart	7	1	0.14
Checkout	2	0	0.00
UI/UX	12	0	0.00
Forms/Validation	5	0	0.00
Total	**40**	**4**	**0.10**

Risk Assessment Based on Coverage

Area	Coverage %	Risk Level	Notes
Core Functionality	100%	◍ Low	Fully automated and passing
User Authentication	100%	◍ Low	AT-001, AT-002 passing
Shopping Cart	100%	◍ Low	AT-003 fully passing

Area	Coverage %	Risk Level	Notes
Checkout Process	100%	⬗ Low	AT-004 E2E tests passing
Navigation/UI	0%	⬗ Medium	Manual testing recommended

Conclusion

Automated Testing

All **30 automated tests** have been executed successfully with a **100% pass rate**:

- ☑ User Registration (7 tests) - All passing
- ☑ User Login/Logout (9 tests) - All passing
- ☑ Shopping Cart Operations (9 tests) - All passing
- ☑ End-to-End Checkout (5 tests) - All passing

Manual Testing

All **40 manual test cases** have been executed with a **97.5% pass rate**:

- ☑ Functional Testing (20 tests) - 20/20 passed
- ☑ Usability Testing (6 tests) - 6/6 passed
- ☑ UI/UX Testing (6 tests) - 6/6 passed
- ⚠ Boundary/Negative Testing (8 tests) - 7/8 passed, 1 failed (TC034)

Defects Found

- **DEF-001** (Medium): No error message when entering negative quantity - product disappears from cart
- **DEF-002** (Medium): Search by category name "Books" returns no products
- **DEF-003** (Medium): Electronics products missing "Add to Cart" button on listing page
- **DEF-004** (High): Product detail page missing "Add to Cart" button for certain items

Overall Results

Metric	Value
Combined Tests	70
Combined Pass Rate	**98.6%**
Defects	4 (1 High, 3 Medium)
Release Decision	**GO (Conditional)**

Sign-Off

Role	Name	Signature	Date
QA Lead	Lakindu De Silva	**__**	12/16/2025

Role	Name	Signature	Date
Test Executor	Chamath Madurasinghe	**_**	12/16/2025
Test Executor	Senithi Mathangaweera	**_**	12/16/2025

Document History

Version	Date	Author	Changes
1.0	Dec 15, 2025	Lakindu De Silva	Initial template
2.0	Dec 15, 2025	Lakindu De Silva	Updated with automation test results
3.0	Dec 16, 2025	Lakindu De Silva	Updated with manual test results and defects