

Automation Exercise E-Commerce Website

TEST PLAN – Version 1.7 | Approved: October 18, 2025

Introduction & Objectives

Introduction

This Test Plan defines the quality assurance strategy, scope, objectives, resources, schedule, and deliverables for validating the Automation Exercise E-Commerce Website, based on the approved SRS (v1.0).

Key Objectives

- Ensure all functional/non-functional requirements are validated.
- Verify end-to-end functional flows (registration, cart, checkout).
- Validate usability, compatibility, and performance benchmarks.
- Develop and maintain a Selenium-based regression suite.

Scope of Testing: IN SCOPE

- ✓ **FR-AUTH:** User Registration, Login, Logout, Account Deletion
- ✓ **FR-PROD:** Product Listing, Search, Filter, Product Details
- ✓ **FR-CART:** Add/View/Update/Remove Items in Cart
- ✓ **FR-CHK:** Checkout and Simulated Payment Process
- ✓ **FR-MISC:** Contact Us and Newsletter Subscription modules
- ✓ **NFRs:** Performance, Usability, Accessibility, and Browser Compatibility

Scope of Testing: OUT OF SCOPE

- ✗ Backend administrative validation (not publicly accessible)
- ✗ Database or API-level CRUD testing
- ✗ Stress or load testing
- ✗ Localization or multi-language testing
- ✗ Real payment gateway transactions

Test Strategy & Deliverables

Test Strategy

- **Manual Functional Testing:** End-to-end UI verification.
- **API Testing:** Validate UI-triggered calls via Postman.
- **Automation Testing:** Using Selenium for smoke and regression.
- **Non-Functional Validation:** Basic performance and accessibility.

Test Deliverables

- Test Plan Document (v1.7)
- Manual and API Test Cases (TestRail)
- Selenium Automation Scripts
- Postman API Collections
- Defect Reports (Jira)
- Final Test Summary Report

Environment & Toolset



Environment

URL: <https://automationexercise.com/>
Browsers: Chrome, Firefox, Edge, Safari
Platforms: Windows 11, macOS, iOS, Android



Management

Test Management: TestRail
Defect Tracking: Jira
Reporting: Excel / Project Templates



Testing Tools

Automation: Selenium
API: Postman
Performance: Lighthouse, Chrome DevTools

Roles & Responsibilities

Mohamed (QA Lead)

- Lead planning, scheduling, and defect management.
- Coordinate team-wide testing and reporting.
- Manage Selenium regression and non-functional tests.

Mariam Isaac (FR-AUTH)

- Test registration, login, logout, account deletion, and order history.
- Validate usability and form error displays.

Roles & Responsibilities (Continued)



Ereny (Product Discovery)

Test search, category, brand, and detail pages. Validate sorting, filtering, and browser compatibility.



Mariam Farghl (Transactions)

Execute cart update and checkout operations with simulated payment. Verify order confirmation and invoice.



Shaker (Auxiliary & NFR)

Test Contact Us and Newsletter functionalities. Assist in performance and accessibility validation.

Test Schedule (Oct 21 – Nov 20, 2025)

Phase	Dates	Responsible
Planning & Setup	Oct 21 – Oct 23	Mohamed (QA Lead)
Test Case Design	Oct 24 – Oct 27	All Testers
Manual Cycle 1 (Auth, Prod)	Oct 28 – Nov 1	Mariam Isaac / Ereny
Manual Cycle 2 (Cart, Misc)	Nov 2 – Nov 8	Mariam Farghl / Shaker
Automation Dev & Execution	Oct 28 – Nov 15	Mohamed + Support
Regression & NFR Testing	Nov 11 – Nov 16	Full Team
Reporting & Final Closure	Nov 17 – Nov 20	Mohamed (QA Lead)

Entry & Exit Criteria

Entry Criteria

- Approved SRS and environment access.
- Test data and credentials prepared.
- Reviewed and approved test cases.

Exit Criteria

- 100% of planned cases executed.
- Critical and major defects closed or accepted.
- Automated smoke tests successful.
- Final Test Report approved.

Risks & Mitigation

Risk	Mitigation
Site Unavailability or Downtime	Schedule execution during stable uptime windows.
Browser Rendering Inconsistencies	Verify during cross-browser cycle early.
Automation Failures	Incremental execution and validation per build.
UI Modifications	Daily scan for layout changes; update scripts promptly.

Questions?

Test Plan v1.7 | Final Sign-off: November 20, 2025

Mohamed – QA Lead