



Test plan : Automation Exercise E-Commerce Website

Comprehensive Test Plan for Quality Assurance

Introduction & Key Objectives

This Test Plan outlines the strategy, scope, and deliverables for validating the E-Commerce Website, ensuring a robust and reliable user experience.

1

Validate Requirements

Ensure all functional and non-functional requirements are met.

2

End-to-End Flows

Verify user journeys from registration to checkout.

3

Performance & Usability

Confirm benchmarks for speed, ease of use, and compatibility.

4

Regression Suite

Develop and maintain a Selenium-based automation suite.

Scope of Testing: In Scope

Our testing focuses on critical user-facing functionalities and essential non-functional aspects to guarantee a seamless e-commerce experience.

Functional Requirements

- User Registration, Login, Logout, Account Deletion (FR-AUTH)
- Product Listing, Search, Filter, Details (FR-PROD)
- Add/View/Update/Remove Items in Cart (FR-CART)
- Checkout and Simulated Payment Process (FR-CHK)
- Contact Us and Newsletter Subscription (FR-MISC)
- Catalog / admin Dashboard (FR-CAT)

Non-Functional Requirements

- Performance benchmarks
- Usability and user experience
- Accessibility standards
- Browser Compatibility (Chrome, Firefox, Edge, Safari)

Scope of Testing: Out of Scope

To maintain focus and efficiency, certain areas are explicitly excluded from this testing phase.

Stress/Load Testing

High-volume stress or load performance testing.

Localization

Multi-language or regional localization testing.

Real Payments

Actual payment gateway transactions.

Database operations

there is no Direct access to the Data base via SQL

server configurations

Server configuration testing is not allowed

Test Strategy & Deliverables

Our multi-faceted approach ensures comprehensive coverage, from manual verification to automated regression, culminating in detailed reports.

Test Strategy

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

Test Deliverables

- Test Plan Document (v1.1)
- API Test Cases Sheet (Using postman)
- Manual Test Cases sheet
- Selenium Automation Scripts
- Defect Reports (Jira)
- Final Test Summary Report

Environment & Toolset

A robust environment and a curated set of tools underpin our testing efforts, ensuring accuracy and efficiency.

Environment

- URL: automationexercise.com
- Browsers: Chrome, Firefox, Edge, Safari
- Platforms: Windows 10 /11

Management

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

Testing Tools

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

Roles & Responsibilities

A dedicated team ensures every aspect of the e-commerce website is thoroughly tested and validated.

Mohamed (QA Lead)

Planning, scheduling, Combination of the manual sheets , defect management (Jira) , API Testing By Postman , Non-functional tests By (Lighthouse + Google developer kit)

Mariam Isaac (FR-AUTH)

Registration, login, logout, account deletion, order history, form errors, automation Regression testing By Selenium .

Ereny Andro (Product Discovery)

Search, category, brand, detail pages, sorting, filtering, automation Regression testing By Selenium.

Mariam Farghl (Transactions)

Cart updates, checkout, simulated payment, order confirmation, automation Regression testing By Selenium.

Shaker Nassry (Admin Role & Backend Verification using the nopcommerce.com admin panel)

Testing order management, Product management and creation, automation Regression testing By Selenium, Team Automation oversight

Test Schedule & Criteria

A structured timeline and clear criteria guide our testing process, ensuring timely and quality delivery.

Test Schedule (Oct 21 – Nov 20, 2025)

- Planning & Setup: Oct 21 – Oct 23 (Mohamed)
- Test Case Design: Oct 24 – Oct 27 (All Testers)
- Manual Cycle 1 (All Modules FR /NFR): Oct 28 – Nov 8
- Automation Dev & Execution: Nov 8 – Nov 25
- Reporting & Final Closure: Nov 17 – Nov 30

Entry & Exit Criteria

- Entry: Approved SRS, environment access, test data, approved test cases.
- Exit: 100% cases executed, critical/major defects closed, automated smoke tests successful, approved Final Test Report.

Risks & Mitigation

- Browser Inconsistencies: Verify early in cross-browser cycle.
- Automation Failures: Incremental execution, daily UI scan for changes.