AUTOMATION TEST PLAN

QAFOX E-Commerce Website

Project Name:
Automation Testing of QAFOX Website

Application Under Test:
QAFOX Demo E-Commerce Web Application

Testing Type:
Automation Testing

Tool & Technology:
Selenium WebDriver | Java | TestNG

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1. Project Overview

This project focuses on **automation testing** of the **QAFOX E-Commerce Website**, a publicly available demo website widely used for software testing practice. The purpose of this project is to validate core user-facing features such as **Register, Login, Logout, Search, and Product Comparison** to ensure a smooth, user-friendly, and reliable experience.

This project is created for **learning, practice, and portfolio demonstration purposes only**.

2. Objective

The objective of this test plan is to:

- Verify that critical user functionalities work as expected
- Identify functional, UI, and usability defects
- Ensure basic security behavior (e.g., password field handling)
- Provide portfolio-ready QA documentation suitable for GitHub

3. Scope

3.1 In Scope (Features Covered)

- User Registration (Automation)
- User Login (Automation)
- User Logout (Automation)
- Product Search (Automation)
- Product Comparison (Automation)

3.2 Out of Scope

- Payment Gateway Automation
- Performance Testing
- Security Testing
- Cross-browser Automation

4. Test Items

The following modules will be tested:

- Register Account Page
- Login Page
- Logout Functionality
- Search Results Page
- Product Display Page
- Product Comparison Page

5. Test Approach

- **Testing Type**: Automation Testing
- **Testing Level**: System Testing
- **Automation Tool**: Selenium WebDriver
- **Programming Language**: Java
- **Framework Type**: TestNG / Hybrid Framework
- **Design Pattern**: Page Object Model (POM)
- **Techniques Used**:
  - Automated Functional Testing
  - UI Validation
  - Regression Testing

Automation scripts are developed for selected critical test cases to demonstrate automation skills for portfolio purposes.

6. Test Environment

- **Application Type**: Web Application (QAFOX Demo Website)
- **Browser**: Google Chrome
- **Operating System**: Windows / macOS
- **Test Data**: Valid and invalid user credentials, product data

7. Entry and Exit Criteria

7.1 Entry Criteria

- Application is accessible
- Test environment is stable
- Test cases are prepared

7.2 Exit Criteria

- All planned test cases are executed
- Critical defects are logged
- Test execution results are documented

8. Deliverables

- Test Plan Document
- Test Scenarios
- Test Cases
- Test Execution Report
- Defect Log (if applicable)
- Traceability Matrix

9. Roles and Responsibilities

- **Automation Tester**: Designing automation scenarios, developing Selenium scripts, executing tests, and preparing reports

10. Risks and Mitigation

Risk	Mitigation
Limited test time	Focus on core functionalities
Environment issues	Retest once environment is stable

11. Approval

This automation test plan is created for learning, practice, and portfolio demonstration purposes. Formal stakeholder approval is not required.