

E-Commerce Test-Plan

1. Introduction

This Test Plan describes the testing strategy, scope, resources, and schedule for testing the E-Commerce web application (Demo Web Shop).

The purpose of this document is to ensure that all critical user flows such as login, product selection, cart validation, checkout, and logout function correctly and meet business requirements.

2. Scope

In Scope

1. User login functionality
2. Product selection and add to cart
3. View cart functionality
4. Checkout and order placement
5. Logout functionality
6. UI testing using Selenium WebDriver
7. API testing using Rest Assured
8. Hybrid testing (API login + UI validation)

Out Scope

1. Performance testing
2. Security testing
3. Mobile application testing
4. Third-party payment gateway validation

3. Test Objectives

1. Verify that users can log in with valid credentials
2. Ensure error handling for invalid login attempts
3. Validate cart and checkout functionality
4. Confirm successful order placement
5. Validate logout functionality
6. Ensure API and UI integration works correctly

4. Test Approach

1. Manual testing based on test scenarios and test cases
2. Automation testing using Selenium WebDriver with Java
3. API testing using Rest Assured
4. Page Object Model (POM) design pattern
5. Hybrid automation approach combining API and UI testing

5. Test Environment

1. Application: Demo Web Shop
2. URL: <https://demowebshop.tricentis.com>
3. Browser: Google Chrome
4. Operating System: Windows
5. Automation Tools: Selenium, TestNG, Rest Assured
6. Build Tool: Maven

6. Test Deliverables

1. - Test Plan document
2. - Test Scenarios
3. - Test Cases
4. - Automation Test Scripts
5. - Test Execution Results