
Test Plan

ShopperStack E-Commerce Application

1. Test Plan Identifier

Document Name: ShopperStack_Test_Plan

Application Name: ShopperStack

Testing Type: Manual Testing & Automation Testing

Prepared By: QA Tester

Date: *(add date)*

Version: 1.0

2. Introduction

This Test Plan describes the overall testing strategy, scope, resources, schedule, and deliverables for testing the **ShopperStack E-Commerce Web Application**.

The purpose of this document is to define how testing activities will be planned, executed, and controlled to ensure application quality.

3. Objective

The objectives of testing are:

- To verify that the ShopperStack application meets functional requirements
 - To ensure critical user workflows work correctly
 - To identify defects early
 - To validate application stability through regression testing
 - To automate repetitive test cases for faster execution
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4. Scope of Testing

4.1 In-Scope

The following modules are included in testing:

- Login & Logout
 - Home Page Navigation
 - Product Search
 - Product Details Page
 - Add to Cart
 - Wishlist Functionality
 - Address Management (Add / Edit / Delete)
 - Profile Management
 - Change Password
 - Product Review Submission
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4.2 Out-of-Scope

- Payment Gateway
 - Order Placement
 - Performance Testing
 - Security Testing
 - OTP / CAPTCHA validation
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5. Test Strategy

5.1 Types of Testing

- Functional Testing
 - Smoke Testing
 - Sanity Testing
 - Regression Testing
 - UI Testing
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5.2 Automation Strategy

- Automation tool: **Selenium WebDriver**
 - Language: **Java**
 - Framework: **Page Object Model (POM)**
 - Test Framework: **TestNG**
 - Build Tool: **Maven**
 - Execution: TestNG XML files
 - Screenshots captured on failure
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6. Test Environment

Operating System : Windows 10

Browser : Google Chrome

Programming Lang : Java 21.0.5

Automation Tool : Selenium WebDriver

Test Framework : TestNG

Build Tool : Maven

IDE : Eclipse

Version Control : GitHub

Application Type : Web Application (E-Commerce)

7. Test Deliverables

- Test Plan Document
- Test Scenarios
- Test Cases
- Requirement Traceability Matrix (RTM)
- Test Execution Report
- Bug Report
- Automation Scripts
- Test Summary Report

8. Entry Criteria

Testing will begin when:

- Application is accessible
- Test environment is ready
- Test cases are prepared
- Test data is available

9. Exit Criteria

Testing will be completed when:

- All planned test cases are executed
- Critical defects are fixed
- Regression testing is completed
- Test summary report is prepared

10. Test Execution Approach

- Manual test cases executed first
- Automation scripts executed using TestNG
- Failed test cases are analyzed
- Defects logged and re-tested
- Regression tests performed after fixes

11. Defect Management

- Defects are logged with:
 - Defect ID
 - Summary
 - Steps to reproduce
 - Expected vs Actual result
 - Severity & Priority
 - Screenshot

12. Roles & Responsibilities

Role	Responsibility
QA Tester	Test case creation, execution, automation
Developer	Defect fixing
Test Lead	Review & approval

13. Risks & Mitigation

Risk	Mitigation
UI changes	Update locators
Dynamic elements	Use explicit waits
Test data issues	Use utility classes

14. Test Schedule (High Level)

Activity	Duration
Requirement Analysis	1 day
Test Case Preparation	2 days
Test Execution	3 days
Automation Execution	3 days
Regression Testing	2 days

15. Test Phase Sign-Off

Testing will be signed off after:

- Meeting exit criteria
 - Approval from test lead
 - Submission of test summary report
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16. Conclusion

This Test Plan ensures a structured and systematic approach to testing the ShopperStack application using both manual and automation techniques.
