

## INTRODUCTION

This Test Summary Report provides an overview of the testing activities conducted for the Automation Store Web Application from 10 June 2025, June 14 2025

**The goals of this reports are to show the following:**

- Verify web application by manual Testing.
- Status of test cases executed with Selenium Automation Tool
- Identified defects.
- Recommendations for improving testing in the upcoming page

**This is the status of all the test cases that are run on the Web Application:**

Test Cases Status	Results
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Total Number of Test Case	45
Passed Test Case	37
Failed Test Case	8
Blocked/Skipped Test Case	0

## Defects Status

This table lists the number of defects in the based on their priority

Defect status	Results
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Total number	08
Blocker	0
Critical	1
Major	2
Minor	5

This table lists the number of defects in the based on their type

Total number	8
Functional	4

Usability	4
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## With Selenium

### Objective:

To design and implement an automated testing framework using Selenium that validates key user workflows of an e-commerce application: login, search, add to cart, wishlist, checkout, and contact functionality.

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### Framework Structure:

```
SeleniumEcommerceProject/  
  
├─ pom.xml  
  
├─ src/  
  
|   ├─ main/java/pages/  
|   |   ├─ LoginPage.java  
|   |   ├─ HomePage.java  
|   |   └─ ProductPage.java  
|   └─ CheckoutPage.java  
  
└─ test/java/tests/  
    ├─ LoginTest.java  
    ├─ SearchTest.java  
    ├─ AddToCartTest.java  
    └─ CheckoutTest.java
```

```
|      └─ ContactUsTest.java
|
└─ BaseTest.java
...

```

## Test Scenarios Covered:

Feature	Test Description
Login	Valid login, invalid login, wrong password scenarios
Search	Search for valid and invalid product names
Cart	Add product to cart, validate quantity, verify item in cart
Checkout	Add to cart → proceed to checkout → validate page load
Wishlist	Select product, add to wishlist, navigate to wishlist, verify product
Contact Us	Navigate from footer → validate Contact Us page and form visibility

## Tech Stack

- **Language:** Java
- **Framework:** TestNG
- **Automation Tool:** Selenium WebDriver
- **Build Tool:** Maven
- **Design Pattern:** Page Object Model (POM)
- **Browser:** Chrome
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## Highlights:

- Page Object Model for modular and scalable code
  - Structured test flow using TestNG
  - Browser automation with WebDriver
  - Assertions to verify UI and functional elements
- Maven for dependency management and test execution

## Recommendations & Suggestions :

Below are the List of improvements needed for the Automation Store Web Application:

### Wishlist Behavior

- **Users can add to wishlist without any confirmation or visual feedback.**
- Suggestion: Show a toast message like “Added to Wishlist” or animate the wishlist icon.
- Also, no option to remove items from wishlist.

## **Cart & Checkout Logic**

- No confirmation message before proceeding to checkout.
- Suggestion: Add a summary popup before redirecting to checkout.

## **Search Suggestions**

- As-you-type suggestions are missing in the search bar.

## **Outcome :**

- Built an end-to-end Selenium automation framework and complemented it with thorough manual testing.
- The project demonstrates the ability to:
- Identify and test key user flows manually
- Translate them into automated scripts
- Organize tests professionally using TestNG + POM.

**Thank You !**