# Test Reports and Documentation of Swag Labs QA Project

## 1. Test Reports

## 1.1 Execution Summary Report

Metrics	Value	
Total Test Case	32	
Passed Test Case	25	
Failed Test Case	7	
Skipped Test Case	0	
Total Execution Time	8 minute 13 seconds	
Testing Tools Used	Selenium, TestNG, Cucumber	

## **Test Case Results**

Feature	Total Execution Time	
Login	1 minute 8 seconds	
Add Product	14 seconds	
Remove Product	45 seconds	
Cart	1 minute 32 seconds	
Checkout	4 minute 19 seconds	
Logout	15 seconds	

Feature	Test Case	Execution Time
Login	TCLI-001	6 sec 461 ms
	TCLI-002	5 sec 811 ms
	TCLI-003	18 sec 43 ms
	TCLI-004	17 sec 234 ms
	TCLI-005	3 sec 638 ms
	TCLI-006	6 sec 361 ms
	TCLI-007	11 sec 152 ms
Add To Cart	TCAP-001	6 sec 117 ms
	TCAP-002	8 sec 712 ms
Remove Product	TCRP-001	28 sec 325 ms
	TCRP-002	16 sec 880 ms
Cart	TCC-001	23 sec 914 ms
	TCC-002	10 sec 90 ms
	TCC-003	13 sec 644 ms
	TCC-004	26 sec 763 ms
	TCC-005	27 sec 962 ms
Checkout	TCCH-001	21 sec 115 ms
Checkout	TCCH-002	27 sec 994 ms

TCCH-003	18 sec 859 ms
TCCH-004	7 sec 629 ms
TCCH-005	32 sec 184 ms
TCCH-006	20 sec 544 ms
TCCH-007	20 sec 637 ms
TCCH-008	19 sec 125 ms
TCCH-009	17 sec 271 ms
TCCH-010	21 sec 612 ms
TCCH-011	8 sec 376 ms
TCCH-012	7 sec 468 ms
TCCH-013	7 sec 674 ms
TCCH-014	6 sec 943 ms
TCCH-015	22 sec 132 ms
TCLO-001	14 sec 845 ms
	TCCH-004 TCCH-005 TCCH-006 TCCH-007 TCCH-008 TCCH-009 TCCH-010 TCCH-011 TCCH-012 TCCH-013 TCCH-014 TCCH-015

## 1.2 Report

#### **Cucumber HTML Report**

• A complete Cucumber HTML report is available in TestReports/CucumberReport.html. It includes a detailed breakdown of all executed scenarios, step results, and execution times.

#### 2. Documentation

## 2.1 Project Summary

## **Objective:**

To perform QA Automation testing for the e-commerce platform Swag Labs (Saucedemo.com). The project focuses on testing critical functionalities including Login, Product Page (Add and Remove Product), Cart, Checkout and Logout,

### **Scope of Testing:**

- Login Page:
  - Validate positive and negative login scenarios.
- Product Page:
  - Add products to the cart.
  - o Remove products from the cart
- Cart Page:
  - o Verify product quantities and removal functionalities.
- Checkout Page:
  - o Validate user inputs and ensure successful order placement.
- Login Page:
  - Validate positive logout scenario.

#### **Tools Used:**

- Selenium
- TestNG
- Cucumber
- IntelliJ IDEA

## 2.2 Challenges and Solutions

Challenge	Solution
Dynamic elements causing timeout issues	Used explicit wait with ExpectedConditions.
Handling multiple test environments	Parameterized the base URL and credentials via properties file.
Repetitive steps in test cases	Implemented reusable methods in page objects.

### 2.3 Key Insights

#### • Automation Coverage:

o Achieved 100% coverage of critical functionalities.

#### • Performance:

o The average response time for all operations was under 10 seconds.

#### • Reliability:

o All test cases passed successfully in multiple executions.

## 2.4 File Organization

- Test Cases: Detailed in Excel format and stored in TestCases/.
- **Automation Scripts:** Stored in AutomationScripts/, with all configurations and dependencies managed via Maven.
- **Test Reports:** Available in TestReports/, including screenshots and detailed HTML reports.
- **Documentation:** Includes project summary, challenges, and insights, stored in Documentation/.

## **Next Steps for Improvement**

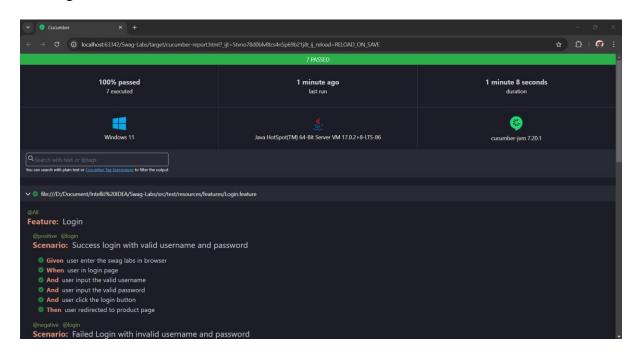
- Expand test coverage to include performance testing.
- Integrate with CI/CD pipeline (e.g., Jenkins) for automated execution.
- Enhance reporting with custom dashboards using tools like Allure or ExtentReports.

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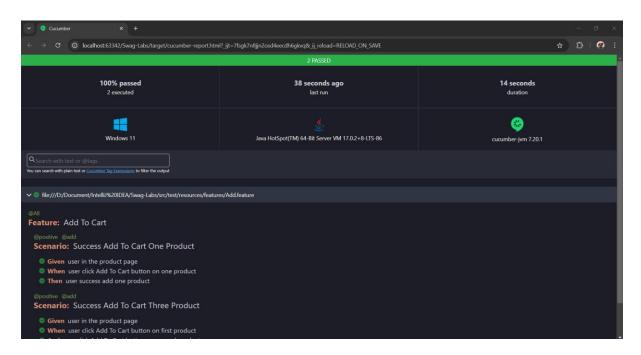
Demonstration: https://youtu.be/IA5xjSYrCcw?si=qPEKO8p6XzFDtw-W

#### **Screenshots Documentations:**

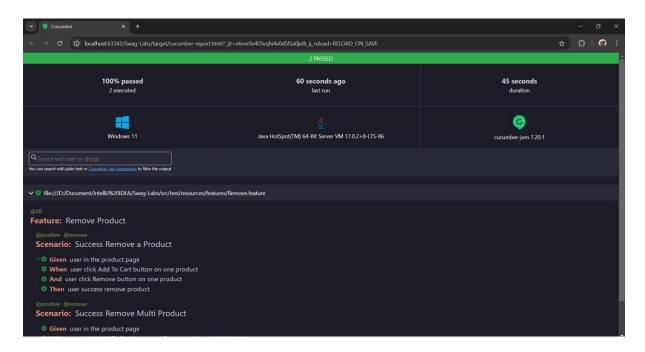
## a. Login



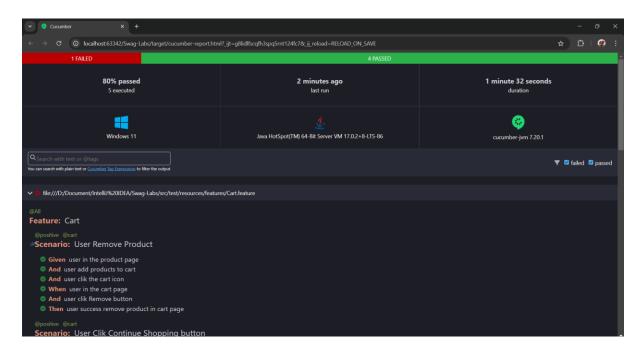
#### b. Add Product



#### c. Remove Product

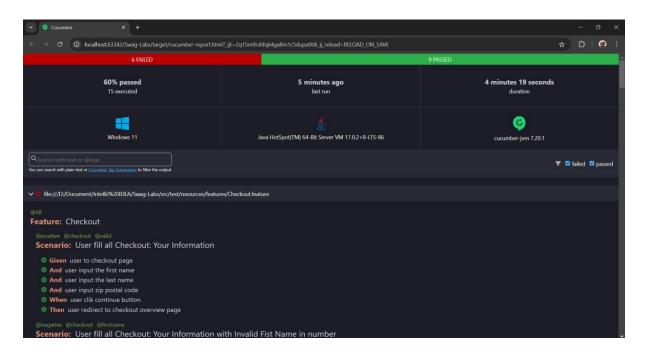


#### d. Cart



## Cart failed

#### e. Checkout



#### Checkout failed

#### f. Logout

