

## Test Plan

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**Project Name:** Swag Labs E-Commerce

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### Objective:

To ensure the core functionalities of Swag Labs (including login, product sorting, cart management, and checkout workflows) meet quality standards, providing a seamless user experience across supported browsers and devices.

### Scope:

1. **Functional Testing:** Validate system features such as login, sorting, cart operations, and checkout workflow.
2. **Regression Testing:** Ensure that changes in one area do not affect existing functionalities.
3. **Exploratory Testing:** Identify edge-case defects not covered in the initial plan.

### In-Scope Features:

- Login functionality
- Product sorting options (e.g., price, name)
- Cart operations (add, update, remove)
- Checkout workflow

### Testing Tools:

- **Bug Tracking:** Jira, Azure DevOps (linked defect IDs)
- **Test Management:** Google Docs, Google Sheets, Azure DevOps (Test Plans)
- **Browsers Tested:** Chrome, Microsoft Edge

### Deliverables:

1. Test cases covering all defined scenarios.
2. Bug reports with severity levels and reproduction steps.
3. Final test report summarizing results and recommendations.

## Test Scenarios and Test Cases

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### Test Scenarios:

1. Verify login functionality with valid, invalid and blank credentials.
2. Test sorting functionality for products by price and name.
3. Validate cart operations including adding, updating, and removing items.
4. Test checkout process.

### Sample Test Cases:

Test Case ID	Test Case Title	Preconditions	Steps	Expected Result	Status
TC_001	Verify login with valid credentials	User is on login page	1. Enter valid username. 2. Enter valid password. 3. Click "Login".	User is redirected to the inventory dashboard with a welcome message.	Pass
TC_002	Verify login with invalid credentials	User is on login page	1. Enter invalid username. 2. Enter invalid password. 3. Click "Login".	Error message: "Invalid username/password."	Pass
TC_003	Verify login with blank credentials	User is on login page	1. Leave username and password fields blank. 2. Click "Login".	Error message: "Username and password cannot be blank."	Pass
TC_004	Validate sorting by price (Low to High)	User is logged in and on inventory page	1. Open sorting dropdown. 2. Select "Price (Low to High)."	Products are displayed in ascending order of price.	Pass
TC_005	Validate sorting by price (High to Low)	User is logged in and on inventory page	1. Open sorting dropdown. 2. Select "Price (High to Low)."	Products are displayed in descending order of price.	Pass
TC_006	Validate sorting by name (A to Z)	User is logged in and on inventory page	1. Open sorting dropdown. 2. Select "Name (A to Z)."	Products are displayed alphabetically in ascending order.	Pass
TC_007	Validate sorting by name (Z to A)	User is logged in and on inventory page	1. Open sorting dropdown. 2. Select "Name (Z to A)."	Products are displayed alphabetically in descending order.	Pass
TC_008	Validate adding items to the cart	User is logged in	1. Navigate to inventory. 2. Add multiple items to the cart. 3. Open the cart.	Cart displays all added items with correct detail.	Pass
TC_009	Validate removing items from the cart	User has items in the cart	1. Open the cart. 2. Remove one or more items. 3. Verify the cart details.	The cart updates to reflect the correct number of items and updated total.	Pass

TC_010	Validate clearing the cart	User has multiple items in the cart	1. Open the cart. 2. Remove all items. 3. Check the cart.	The cart is empty.	Pass
TC_011	Validate checkout	User has items in the cart	1. Proceed to checkout. 2. Enter customer details. 3. Finish checkout.	Checkout is complete.	Pass
TC_012	Validate checkout with an empty cart	Cart is empty	1. Navigate to checkout. 2. Attempt to complete checkout.	Error message: "Your cart is empty."	Fail

## Test Cases Version

- **Google Sheet Version:** Contains detailed test cases in google sheet version for Swag Labs workflows, manually created and tracked for cross-team collaboration.

<https://docs.google.com/spreadsheets/d/1X-2ODZBsVNEUL05fuhDnUB49kP-I7EYh/edit?usp=sharing&oid=114755984459576336264&rtpof=true&sd=true>

- **Azure DevOps Test Plans:** Includes test cases with execution results and linked defect IDs for enhanced traceability.

### a. Test cases using Azure DevOps Test Plans

[https://drive.google.com/file/d/1cdI1pi8dz7eczt2oV\\_WdQ2VmD4\\_ODt8x/view?usp=sharing](https://drive.google.com/file/d/1cdI1pi8dz7eczt2oV_WdQ2VmD4_ODt8x/view?usp=sharing)

The screenshot displays the Azure DevOps Test Plans web interface. The left sidebar shows the navigation menu with 'Test Plans' selected. The main area shows the 'Login (ID: 3)' test suite, which is currently in a 'Pass' state (91% run, 100% passed). Below the suite overview, a table lists 12 test cases, each with a checkbox, title, order, test case ID, assigned to, and state.

Test Case ID	Title	Order	Assigned To	State
4	Verify login with valid credentials	1	Ellyn Mae Juarez	Design
7	Verify login with invalid credentials	2	Ellyn Mae Juarez	Design
8	Verify login with blank credentials	3	Ellyn Mae Juarez	Design
9	Validate sorting by price (Low to High)	4	Ellyn Mae Juarez	Design
10	Validate sorting by price (High to Low)	5	Ellyn Mae Juarez	Design
11	Validate sorting by name (A to Z)	6	Ellyn Mae Juarez	Design
12	Validate sorting by name (Z to A)	7	Ellyn Mae Juarez	Design
13	Validate adding items to the cart	8	Ellyn Mae Juarez	Design
14	Validate removing items from the cart	9	Ellyn Mae Juarez	Design
15	Validate clearing the cart	10	Ellyn Mae Juarez	Design
16	Validate checkout	11	Ellyn Mae Juarez	Design
17	Validate checkout with an empty cart	12	Ellyn Mae Juarez	Design

## b. Test execution of test points along with the outcome (Pass/Fail)

[https://drive.google.com/file/d/1cBgWN1INZAw0jw\\_UmRPa\\_4wcWFsusbQI/view?usp=sharing](https://drive.google.com/file/d/1cBgWN1INZAw0jw_UmRPa_4wcWFsusbQI/view?usp=sharing)

The screenshot shows the Azure DevOps Test Plans interface. On the left, a sidebar contains navigation links: Overview, Boards, Repos, Pipelines, Test Plans (selected), Progress report, Parameters, Configurations, Runs, and Artifacts. The main area displays the 'Functional Testing' suite for 'Login (12)'. A table titled 'Test Points (12 items)' shows the execution results for each test point. The table has columns: Title, Outcome, Order, Test Case Id, Configuration, and Tester. The outcomes are: 11 Passed, 1 Failed (Validate checkout with an empty cart).

Title	Outcome	Order	Test Case Id	Configuration	Tester
Verify login with valid credentials	Passed	1	4	Windows 10	Ellyn Mae Juarez
Verify login with invalid credentials	Passed	2	7	Windows 10	Ellyn Mae Juarez
Verify login with blank credentials	Passed	3	8	Windows 10	Ellyn Mae Juarez
Validate sorting by price (Low to High)	Passed	4	9	Windows 10	Ellyn Mae Juarez
Validate sorting by price (High to Low)	Passed	5	10	Windows 10	Ellyn Mae Juarez
Validate sorting by name (A to Z)	Passed	6	11	Windows 10	Ellyn Mae Juarez
Validate sorting by name (Z to A)	Passed	7	12	Windows 10	Ellyn Mae Juarez
Validate adding items to the cart	Passed	8	13	Windows 10	Ellyn Mae Juarez
Validate removing items from the cart	Passed	9	14	Windows 10	Ellyn Mae Juarez
Validate clearing the cart	Passed	10	15	Windows 10	Ellyn Mae Juarez
Validate checkout	Passed	11	16	Windows 10	Ellyn Mae Juarez
Validate checkout with an empty cart	Failed	12	17	Windows 10	Ellyn Mae Juarez

## Enhancement(s):

### 1. TC\_008

- Add total amount to the cart page for better order transparency.

The screenshot shows the Sauce Labs cart page. The header includes the Sauce Labs logo and a shopping cart icon with a red '2' indicating two items. The main content area is titled 'Your Cart' and lists two items:

- Sauce Labs Bike Light**: A red light isn't the desired state in testing but it sure helps when riding your bike at night. Water-resistant with 3 lighting modes, 1 AAA battery included. Price: \$9.99.
- Sauce Labs Bolt T-Shirt**: Get your testing superhero on with the Sauce Labs bolt T-shirt. From American Apparel. 100% ringspun combed cotton, heather gray with red bolt. Price: \$15.99.

Each item has a 'Remove' button. At the bottom, there are 'Continue Shopping' and 'Checkout' buttons. A dark footer bar at the very bottom contains social media icons and copyright information: '© 2025 Sauce Labs. All Rights Reserved. Terms of Service | Privacy Policy'.

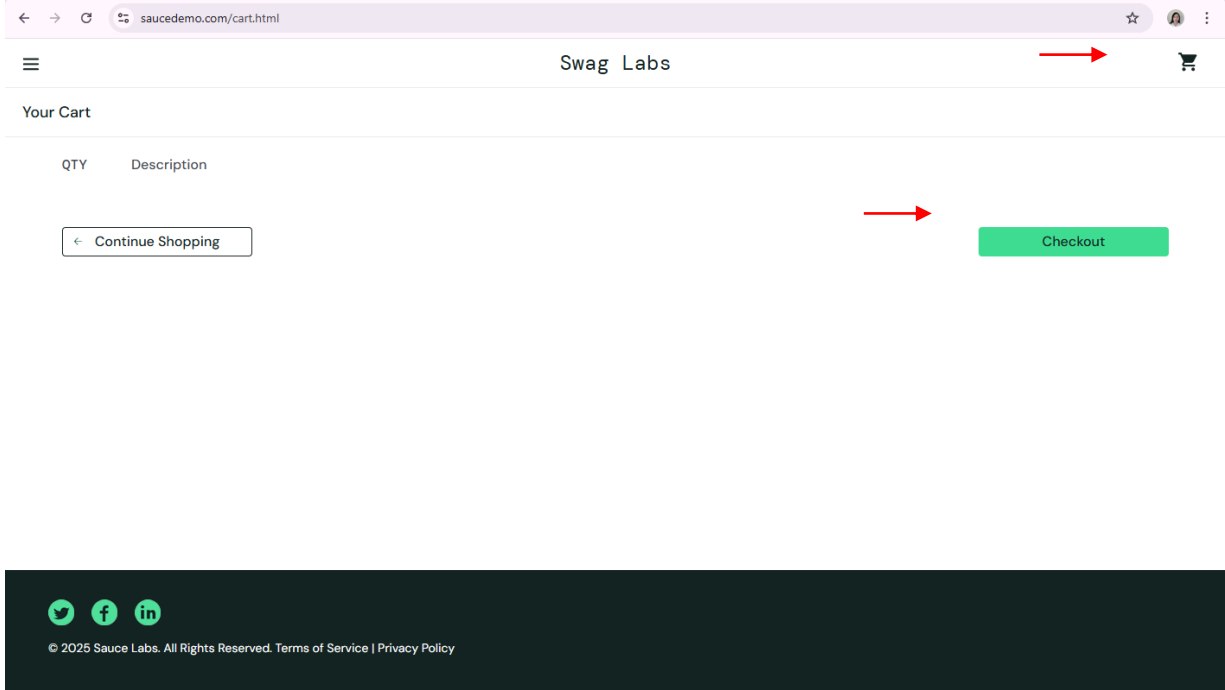
# Bug Report

Bug ID	Title	Severity	Steps to Reproduce	Expected Result	Actual Result	Status
BUG_001	User able to navigate to checkout with an empty cart	Medium	1. Ensure cart is empty. 2. Navigate to the cart page and click the "Checkout" button. 3. Enter buyer details in the checkout form and click "Continue." 4. Click the "Finish" button.	The user should not be able to proceed to the checkout page if the cart is empty. A message like "Your cart is empty. Please add items to proceed to checkout" should be displayed.	The user can proceed to the checkout page and complete the checkout process, despite the cart being empty.	Open

## Attachment(s):

### 1. TC\_012

a. Cart page showing an empty cart, but the "Checkout" button is enabled.



b. Successful checkout process despite having an empty cart.

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Checkout: Overview

QTY	Description
<b>Payment Information:</b> SauceCard #31337	
<b>Shipping Information:</b> Free Pony Express Delivery!	
<b>Price Total</b> Item total: \$0 Tax: \$0.00 <b>Total: \$0.00</b>	

← Cancel

Finish

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🔍 saucedemo.com/checkout-complete.html

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Checkout: Complete!

✓

Thank you for your order!

Your order has been dispatched, and will arrive just as fast as the pony can get there!

Back Home

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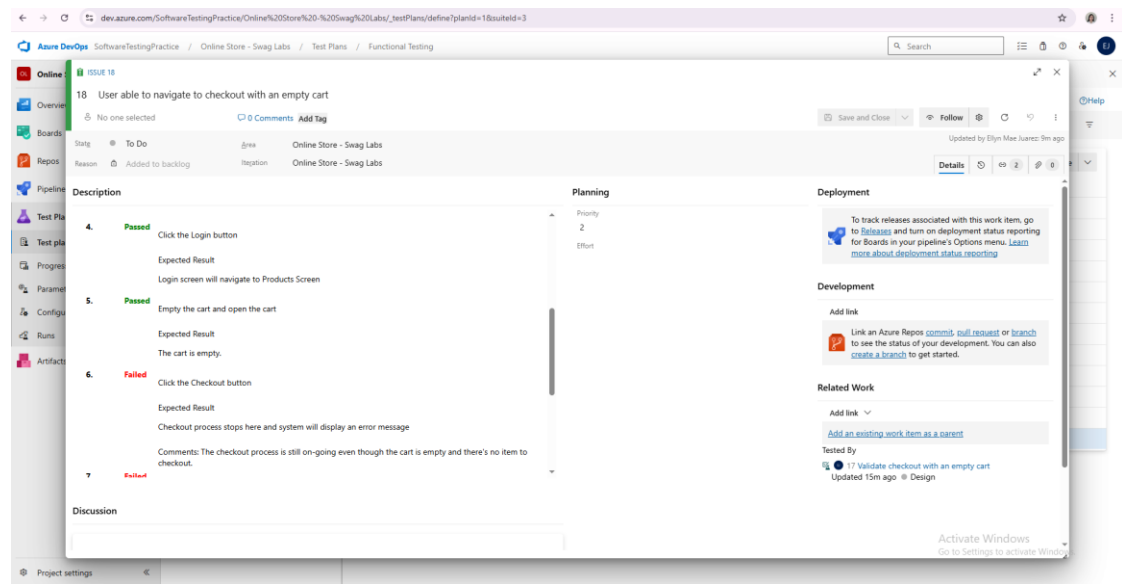
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Bug Report Version

- **Azure DevOps** (linked defect ID): Contains bug report linked defect IDs from failed execution test case for enhanced traceability.

<https://drive.google.com/file/d/1k0YMD384Vqk8jUUzR9Fn6k33QrIQwz5B/view?usp=sharing>



Test Report

**Project Name:** Swag Labs E-Commerce

**Summary:**

Testing focused on validating key functionalities, including login, product sorting, cart operations, and checkout workflows. A total of 20 test cases were executed, with 15 passing and 5 failing.

**Test Results Overview:**

Feature	Test Cases Executed	Pass	Fail	Remarks
Login Functionality	3	3	0	Login workflows validated successfully.
Product Sorting	4	4	0	Sorting functionality works as expected.
Cart Management	3	3	0	Cart operations (add/remove/clear) tested successfully.
Checkout Workflow	2	1	1	Bug encountered: User can proceed to checkout with an empty cart (BUG_001).
Total	12	11	1	Overall, most features passed testing; one critical issue identified for resolution.

### **Key Findings:**

1. **Cart Total Calculation Missing:** The cart page does not display the total amount for selected items, which limits order transparency for users. This issue could lead to order cancellations or poor user feedback.
2. **Checkout Workflow Vulnerability:** Users are able to navigate to the checkout page and complete the process even with an empty cart. This behavior violates logical workflows and exposes potential gaps in input validation.

### **Recommendations:**

- **Cart Total Calculation:** Implement a feature to display the total price of all items in the cart. Validate the total with automated test cases to ensure accuracy during operations like adding, removing, or applying discounts.
- **Prevent Empty Cart Checkout:** Add a validation check on the cart page that blocks users from proceeding to checkout if the cart is empty. Display a user-friendly message like "Your cart is empty. Please add items to proceed."
- **Regression Testing:** After fixing the above issues, conduct thorough regression testing to confirm no new defects were introduced.