

# Test Plan v1.0

## SauceDemo Web Application

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### Objective

The goal of this plan is to check that SauceDemo works correctly for a typical shopping flow: login, browsing products, adding items to the cart, checkout and logout. Testing also covers basic usability, security and accessibility checks.

### Scope

#### Inscope

- Login with different user types (valid, invalid, locked).
- Products page: product list, sorting, product detail.
- Cart: add, remove, update, persist after refresh.
- Checkout: personal info form, overview, order completion.
- Menu actions: All items, Reset App State, Logout.
- Footer links (Twitter, Facebook, LinkedIn).
- Non-functional checks, page responsiveness, error messages, simple performances and accessibility checks.

#### Out of scope

- Load/stress testing with large numbers of users.
- Payment gateway or backend integration (not included in demo site).
- Database/API level testing.
- Mobile app testing (only web browser tested).

### Test Approach

- Manual testing will be done for all the features.
- Positive and negative scenarios will be covered.
- Exploratory testing will be used to find out usability issues.
- Defects will be reported with screenshots and linked to test case ID's.
- Later, automation (Cypress/Playwright) can reuse these manual cases.

### Test Items

- Login page
- Product catalog and sorting
- Cart page and icon
- Checkout workflow (Your Information, Overview, Complete)
- Menu options
- Footer links

# Entry and Exit Criteria

## Entry Criteria

- Application is available at <https://www.saucedemo.com>
- Test accounts are provided
- Test environment is stable

## Exit Criteria

- All planned test cases executed
- No open critical bugs.
- Test results documented in summary report

# Deliverables

- Test Plan (this document)
- Test Case suite (55 manual test cases)
- Test Execution report (Pass/Fail cases)
- Defect Report (list of failed cases)
- Final Test Summary Report

# Environment and Tools

- Browsers: Chrome, Firefox, Edge
- Tools: Browser DevTools, Google Docs/Excel for test cases, Screenshots for bug evidence

# Risks

- Demo site may reset data unexpectedly (re-run tests if needed)
- Know demo limits (fake checkout)
- Security not production level (Document issues but treat as demo environment)

# Schedule and Resources

- Tester: 1 QA Engineer
- Time: 2-3 days for full run
- Cycle: 1 full cycle + retest for failed or flaky tests

# Conclusion

This test plan provides a simple but complete approach for testing SauceDemo. It ensures that the most important user flows are validated, issues are reported and the results are ready to share in a client report or portfolio.

# Test Cases

## Login and Session

Test Case ID	<b>SD_LOGIN_01</b>
Feature	Login
Description	Verify login with valid <b>standard_user</b> username
Precondition	User is on Saucedemo login page ( <a href="http://www.saucedemo.com">http://www.saucedemo.com</a> )
Test data	Username: <b>standard_user</b> Password: <b>secret_sauce</b>
Test steps	<ol style="list-style-type: none"><li>1. Enter username</li><li>2. Enter password</li><li>3. Click <b>Login</b> button</li></ol>
Expected result	The user is redirected to the Product page with 6 products visible.
Actual result	<input checked="" type="checkbox"/> User redirected to Product page with 6 products visible.

Test Case ID	<b>SD_LOGIN_02</b>
Feature	Login
Description	Verify <b>locked_out_user</b> can't log in and shows error
Precondition	User is on login page
Test data	Username: <b>locked_out_user</b> Password: <b>secret_sauce</b>
Test steps	<ol style="list-style-type: none"><li>1. Enter username</li><li>2. Enter password</li><li>3. Click <b>Login</b> button</li></ol>
Expected result	Error message should be displayed: "Epic sadface: Sorry, this user has been locked out."
Actual result	<input checked="" type="checkbox"/> Error message "Epic sadface: Sorry, this user has been locked out" is displayed:

Test Case ID	<b>SD_LOGIN_03</b>
Feature	Login
Description	Verify login fails with an invalid password and the correct error message is shown
Precondition	User is on login page
Test data	Username: <b>standard_user</b> Password: <b>wrongpassword</b>
Test steps	<ol style="list-style-type: none"><li>1. Enter username</li><li>2. Enter password</li><li>3. Click <b>Login</b> button</li></ol>
Expected result	Error message should be displayed: "Epic sadface: Username and password do not match any user in this service"
Actual result	<input checked="" type="checkbox"/> Error message "Epic sadface: Username and password do not match any user in this service" is displayed

<b>Test Case ID</b>	<b>SD_LOGIN_04</b>
Feature	Login
Description	Verify error for blank username and password
Precondition	User is on login page
Test data	-
Test steps	<ol style="list-style-type: none"> <li>1. Leave both fields empty</li> <li>2. Click <b>Login</b> button</li> </ol>
Expected result	Error message should be displayed: "Epic sadface: Username is required"
Actual result	<input checked="" type="checkbox"/> Error message "Epic sadface: Username is required" is displayed

<b>Test Case ID</b>	<b>SD_LOGIN_05</b>
Feature	Login
Description	Verify error for blank password only
Precondition	User is on login page
Test data	Username: <b>standard_user</b>
Test steps	<ol style="list-style-type: none"> <li>1. Enter username</li> <li>2. Leave password field empty</li> <li>3. Click <b>Login</b> button</li> </ol>
Expected result	Error message should be displayed: "Epic sadface: Password is required"
Actual result	<input checked="" type="checkbox"/> Error message "Epic sadface: Password is required" is displayed

<b>Test Case ID</b>	<b>SD_LOGIN_06</b>
Feature	Security
Description	Verify password field masks characters
Precondition	User is on login page
Test data	Password: <b>secret_sauce</b>
Test steps	<ol style="list-style-type: none"> <li>1. Type into password field</li> </ol>
Expected result	Password characters are masked, input type="password"
Actual result	<input checked="" type="checkbox"/> Password hidden while typing

<b>Test Case ID</b>	<b>SD_LOGIN_07</b>
Feature	Session
Description	Verify Logout clears session and unable to access "Products" page
Precondition	User is logged in as <b>standard_user</b> on Products page
Test data	-
Test steps	<ol style="list-style-type: none"> <li>1. Open <b>Menu</b> top left corner</li> <li>2. Click <b>Logout</b></li> <li>3. Go to <a href="https://www.saucedemo.com/inventory.html">https://www.saucedemo.com/inventory.html</a></li> </ol>
Expected result	User is redirected to login page
Actual result	<input checked="" type="checkbox"/> Redirected to login page when opening Products page

<b>Test Case ID</b>	<b>SD_LOGIN_08</b>
Feature	Security
Description	Verify protected pages are blocked when logged out
Precondition	User is logged out on a fresh session
Test data	-
Test steps	1. Go to <a href="https://www.saucedemo.com/inventory.html">https://www.saucedemo.com/inventory.html</a>
Expected result	User is redirected to login page and error message should be displayed
Actual result	<input checked="" type="checkbox"/> Redirected to login page and error message is displayed

<b>Test Case ID</b>	<b>SD_LOGIN_09</b>
Feature	Accessibility
Description	Verify Enter key submits login form
Precondition	User is on login page
Test data	Username: <b>standard_user</b> Password: <b>secret_sauce</b>
Test steps	1. Enter username 2. Enter password 3. Press Enter key
Expected result	Form submits and user is redirected to Products page
Actual result	<input checked="" type="checkbox"/> Login successful via Enter key

<b>Test Case ID</b>	<b>SD_LOGIN_10</b>
Feature	UX
Description	Verify error banner can be dismissed and reappears on next invalid submit
Precondition	User is on login page with error already visible
Test data	-
Test steps	1. Click X to dismiss the error 2. Submit invalid credentials again
Expected result	Error hides after dismissal, shows again on next invalid submit.
Actual result	<input checked="" type="checkbox"/> Dismissal works and error shows again on next submit

## Inventory and sorting

<b>Test Case ID</b>	<b>SD_INV_01</b>
Feature	Inventory
Description	Verify Products page shows 6 items with name, price, image and Add to cart button
Precondition	User is on login page
Test data	Username: <b>standard_user</b> Password: <b>secret_sauce</b>
Test steps	<ol style="list-style-type: none"> <li>1. Enter valid credentials</li> <li>2. Count product tiles</li> <li>3. Inspect product fields on 6 tiles</li> </ol>
Expected result	<ul style="list-style-type: none"> <li>• Exactly 6 tiles are present.</li> <li>• Product names are:             <ol style="list-style-type: none"> <li>1. Sauce Labs Backpack (\$29.99)</li> <li>2. Sauce Labs Bike Light (\$9.99)</li> <li>3. Sauce Labs Bolt T-Shirt (\$15.99)</li> <li>4. Sauce Labs Fleece Jacket (\$49.99)</li> <li>5. Sauce Labs Onesie (\$7.99)</li> <li>6. Sauce Labs Red T-Shirt (\$15.99)</li> </ol> </li> <li>• Each tile shows: name, description, price, product image, and Add to cart button.</li> </ul>
Actual result	<span style="color: red;">✖</span> All 6 tiles are displayed correctly: description, price, product image and Add to card button. Displayed name is "Test.allTheThings() T-Shirt (Red)" instead of "Sauce Labs Red T-Shirt"

<b>Test Case ID</b>	<b>SD_INV_02</b>
Feature	Sorting
Description	Verify sorting by Name (A to Z) orders items alphabetically ascending
Precondition	User is logged in and on Products page
Test data	-
Test steps	<ol style="list-style-type: none"> <li>1. Click and open sort dropdown menu</li> <li>2. Select <b>Name (A to Z)</b></li> </ol>
Expected result	Items are ordered from A to Z by product name
Actual result	<span style="color: green;">✓</span> Order was A to Z

<b>Test Case ID</b>	<b>SD_INV_03</b>
Feature	Sorting
Description	Verify sorting by Name (Z to A) orders items alphabetically descending
Precondition	User is logged in and on Products page
Test data	-
Test steps	<ol style="list-style-type: none"> <li>1. Click and open sort dropdown menu</li> <li>2. Select <b>Name (Z to A)</b></li> </ol>
Expected result	Items are ordered from Z to A by product name
Actual result	<span style="color: green;">✓</span> Order was Z to A

<b>Test Case ID</b>	<b>SD_INV_04</b>
Feature	Sorting
Description	Verify sorting by Price (low to high) uses numeric ascending order
Precondition	User is logged in and on Products page
Test data	-
Test steps	1. Click and open sort dropdown menu 2. Select <b>Price (low to high)</b>
Expected result	Items appear in ascending price order (numeric)
Actual result	<input checked="" type="checkbox"/> Prices sorted low to high

<b>Test Case ID</b>	<b>SD_INV_05</b>
Feature	Sorting
Description	Verify sorting by Price (high to low) uses numeric descending order
Precondition	User is logged in and on Products page
Test data	-
Test steps	1. Click and open sort dropdown menu 2. Select <b>Price (high to low)</b>
Expected result	Items appear in descending price order (numeric)
Actual result	<input checked="" type="checkbox"/> Prices sorted high to low

<b>Test Case ID</b>	<b>SD_INV_06</b>
Feature	Navigation
Description	Verify clicking product title opens detail page
Precondition	User is logged in and on Products page
Test data	Product: Sauce Labs Backpack
Test steps	1. Click product title
Expected result	User lands on product detail page
Actual result	<input checked="" type="checkbox"/> Detail opened correctly via product title

<b>Test Case ID</b>	<b>SD_INV_07</b>
Feature	Navigation
Description	Verify clicking product image opens same detail page
Precondition	User is logged in and on Products page
Test data	Product: Sauce Labs Backpack
Test steps	1. Click product image
Expected result	User lands on product detail page
Actual result	<input checked="" type="checkbox"/> Detail opened correctly via product image

Test Case ID	<b>SD_INV_08</b>
Feature	Accessibility
Description	Verify that each product image has <b>alt</b> attribute that matches the product name in the DOM (used by screen readers and when images fail to load, not shown as a tooltip)
Precondition	User is logged in and on Products page
Test data	-
Test steps	<ol style="list-style-type: none"> <li>1. Inspect image elements via DevTools</li> <li>2. Check the value of the <b>alt</b> attribute on the <b>&lt;img&gt;</b> tag</li> <li>3. Check the <b>alt</b> attribute values for all 6 product images</li> </ol>
Expected result	<ul style="list-style-type: none"> <li>• Every product <b>&lt;img&gt;</b> element has a non-empty <b>alt</b> attribute</li> <li>• <b>Alt</b> text should match the product's display name (e.g. "Sauce Labs Backpack", "Sauce Labs Bike Light", etc.)</li> </ul>
Actual result	<span style="color: red;">✖</span> All 6 images contain alt attributes, but one product has incorrect alt text: - Test.allTheThings() T-Shirt (Red) instead of the expected Sauce Labs Red T-Shirt.

Test Case ID	<b>SD_INV_09</b>
Feature	State
Description	Verify sort selection persists after visiting a detail page and navigation back
Precondition	User is logged in and on Products page with sort set to <b>Price (high to low)</b>
Test data	-
Test steps	<ol style="list-style-type: none"> <li>1. Open any product detail</li> <li>2. Click <b>Back to products</b></li> </ol>
Expected result	Returns to Product with the same sort selected and order maintained
Actual result	<span style="color: red;">✖</span> Sort is not persisted When navigating back, Products page reverts to default sort (Name A–Z)

Test Case ID	<b>SD_INV_10</b>
Feature	Reset
Description	Verify Reset App State clears cart and returns default sorting
Precondition	User is logged in and on Products page after adding items and changing order
Test data	-
Test steps	<ol style="list-style-type: none"> <li>1. Click <b>Menu</b> top left corner</li> <li>2. Click <b>Reset App State</b></li> <li>3. Refresh the page</li> </ol>
Expected result	Cart is empty and sort returns to default (A to Z)
Actual result	<span style="color: green;">✓</span> Cart is cleared and sort returns to default sorting

## Cart

<b>Test Case ID</b>	<b>SD_CART_01</b>
Feature	Cart
Description	Verify adding an item to cart from inventory tile updates button and cart icon
Precondition	User is logged in and on Products page
Test data	Product: Sauce Labs Backpack
Test steps	1. Click <b>Add to cart</b> button on the tile
Expected result	Button changes to Remove and cart icon shows 1
Actual result	<input checked="" type="checkbox"/> Button switches to Remove and cart icon shows 1

<b>Test Case ID</b>	<b>SD_CART_02</b>
Feature	Cart
Description	Verify removing an item from inventory tile reverts button and cart icon
Precondition	User is logged in and on Products page
Test data	Product: Sauce Labs Backpack
Test steps	1. Click <b>Remove</b> button on the tile
Expected result	Button returns to Add to cart and cart icon goes to 0
Actual result	<input checked="" type="checkbox"/> Button returned to Add to cart and icon went to 0

<b>Test Case ID</b>	<b>SD_CART_03</b>
Feature	Cart
Description	Verify adding an item to cart from products detail page updates button and cart icon
Precondition	User is logged in and on Products page
Test data	Any product
Test steps	1. Click <b>Add to cart</b> 2. Click <b>Back to Products</b>
Expected result	Selected product tile button shows Remove and cart icon increases by 1
Actual result	<input checked="" type="checkbox"/> Selected product tile button showed Remove and cart icon increased by 1

<b>Test Case ID</b>	<b>SD_CART_04</b>
Feature	Cart
Description	Verify Cart page lists selected items with correct quantity and prices
Precondition	User has at least two different items in cart and opens Cart page
Test data	Two different items added to cart
Test steps	1. Click cart icon top right corner 2. Review added product items
Expected result	Two items have correct quantity and prices
Actual result	<input checked="" type="checkbox"/> Two items listed have correct quantity and prices

<b>Test Case ID</b>	<b>SD_CART_05</b>
Feature	Cart
Description	Verify removing an item in Cart updates totals and icon number
Precondition	User is on Cart page
Test data	Two different items present
Test steps	1. Click <b>Remove</b> for 1 item
Expected result	Item row disappears and cart icon number decreases accordingly
Actual result	<input checked="" type="checkbox"/> Row removed and cart icon updated

<b>Test Case ID</b>	<b>SD_CART_06</b>
Feature	Cart
Description	Verify Continue Shopping returns to Products page and preserves cart
Precondition	User is on Cart page
Test data	-
Test steps	1. Click <b>Continue Shopping</b>
Expected result	User returns to Products page with cart unchanged
Actual result	<input checked="" type="checkbox"/> Returned to products page and cart is unchanged

<b>Test Case ID</b>	<b>SD_CART_07</b>
Feature	Cart
Description	Verify cart icon count number shows correct number by adding multiple different items
Precondition	User is on Products page
Test data	Add 3 different items
Test steps	1. Add item 1 2. Add item 2 3. Add item 3 4. Review cart icon count
Expected result	Cart icon shows 3 items
Actual result	<input checked="" type="checkbox"/> Cart icon shows 3 items

<b>Test Case ID</b>	<b>SD_CART_08</b>
Feature	State
Description	Verify state sync when adding item in product detail page and removing from products page list
Precondition	User has added an item to cart on its detail page
Test data	Same item
Test steps	1. Click <b>Back to Products</b> 2. Click <b>Remove</b> on tile
Expected result	Details page and list stay in sync and cart icon shows correct number
Actual result	<input checked="" type="checkbox"/> States synced and correct cart icon number

<b>Test Case ID</b>	<b>SD_CART_09</b>
Feature	Reliability
Description	Verify cart contents stay after page refresh
Precondition	User has item in cart and is on Products page
Test data	-
Test steps	1. Press browser refresh
Expected result	Cart contents and icon stays during the session
Actual result	<input checked="" type="checkbox"/> Cart stays after page refresh

<b>Test Case ID</b>	<b>SD_CART_10</b>
Feature	Reliability
Description	Verify add/remove toggle works repeatedly without desync
Precondition	User is on Products page
Test data	1 random product
Test steps	1. Click <b>Add to cart</b> 2. Click <b>Remove</b> 3. Add again same item
Expected result	Tile state and cart icon always show current state
Actual result	<input checked="" type="checkbox"/> Toggle remained consistent

## Checkout

<b>Test Case ID</b>	<b>SD_CHECKOUT_01</b>
Feature	Checkout
Description	Verify clicking "Checkout" on Cart navigates to "Checkout: Your information" page
Precondition	User has 1 or more items in the cart and on Cart page
Test data	-
Test steps	1. Click <b>Checkout</b>
Expected result	User navigates to Checkout: Your information page
Actual result	<input checked="" type="checkbox"/> Navigation "Checkout: Your information page" was successful

<b>Test Case ID</b>	<b>SD_CHECKOUT_02</b>
Feature	Validation
Description	Verify First Name is mandatory on Checkout: Your information page
Precondition	User is on Checkout: Your information page page
Test data	Leave all blanks empty
Test steps	1. Click <b>Continue</b>
Expected result	Error message "Error: First Name is required" should be displayed
Actual result	<input checked="" type="checkbox"/> Error message is displayed

<b>Test Case ID</b>	<b>SD_CHECKOUT_03</b>
Feature	Validation
Description	Verify Last Name is mandatory on Checkout: Your information page
Precondition	User is on Checkout: Your information page page
Test data	First name: Mari
Test steps	1. Enter first name 2. Click <b>Continue</b>
Expected result	Error message "Error: Last Name is required" should be displayed
Actual result	<input checked="" type="checkbox"/> Error message is displayed

<b>Test Case ID</b>	<b>SD_CHECKOUT_04</b>
Feature	Validation
Description	Verify Postal Code is mandatory on Checkout: Your information page
Precondition	User is on Checkout: Your information page page
Test data	First name: Mari Last name: Tamm
Test steps	1. Enter First and Last name 2. Click <b>Continue</b>
Expected result	Error message "Error: Postal Code is required" should be displayed
Actual result	<input checked="" type="checkbox"/> Error message is displayed

<b>Test Case ID</b>	<b>SD_CHECKOUT_05</b>
Feature	Usability
Description	Verify that mandatory field (First Name, Last Name, Postal Code) are visually indicated as required on Checkout: Your Information
Precondition	User is on Checkout: Your information page page
Test data	-
Test steps	1. Inspect the form fields for First Name, Last Name, Postal Code 2. Look for any required field indicators (such as red *, red border, helper text "required" )
Expected result	Each mandatory field should have a visual indicator that is required such as red *, red border, helper text "required"). This should be clear without submitting the form
Actual result	<input checked="" type="checkbox"/> Fields are mandatory but have no visual indicators. User only discovers the requirement after submitting and receiving error messages.

<b>Test Case ID</b>	<b>SD_CHECKOUT_06</b>
Feature	Checkout
Description	Verify valid info proceeds to Checkout Overview
Precondition	User is on Checkout: Your information page page
Test data	First name: Mari Last name: Tamm Postal code: 12345
Test steps	1. Fill the fields 2. Click <b>Continue</b>
Expected result	User navigates to Checkout Overview with items and totals
Actual result	<input checked="" type="checkbox"/> Navigation is successful

<b>Test Case ID</b>	<b>SD_CHECKOUT_07</b>
Feature	Totals
Description	Verify item totals equals the sum of item prices on Checkout: Overview
Precondition	User is on Checkout: Overview page with known added items
Test data	Record item prices
Test steps	<ol style="list-style-type: none"> <li>1. Sum item prices</li> <li>2. Compare with displayed Subtotal</li> </ol>
Expected result	Displayed item total equals the sum of item prices
Actual result	Item total matched manual sum

<b>Test Case ID</b>	<b>SD_CHECKOUT_08</b>
Feature	Totals
Description	Verify Total equals Item totals plus Tax on Checkout: Overview
Precondition	User is on Checkout: Overview page
Test data	Calculate Item Total and Tax
Test steps	<ol style="list-style-type: none"> <li>1. Manually calculate Total = Item Total+Tax</li> <li>2. Compare with displayed Total</li> </ol>
Expected result	Displayed Total equals calculated Total.
Actual result	Total equaled Item Total + Tax

<b>Test Case ID</b>	<b>SD_CHECKOUT_09</b>
Feature	Price
Description	Verify item total and tax values are displayed with correct decimal formatting
Precondition	User is on Checkout: Overview page with multiple items in cart
Test data	-
Test steps	<ol style="list-style-type: none"> <li>1. Observe "Item total"</li> </ol>
Expected result	Item total should display with 2 decimal places.
Actual result	Displayed Item total have more than 2 decimal places.

<b>Test Case ID</b>	<b>SD_CHECKOUT_10</b>
Feature	Workflow
Description	Verify Finish completes the order and clears the cart
Precondition	User is on Checkout: Overview page with multiple items in cart
Test data	-
Test steps	<ol style="list-style-type: none"> <li>1. Click <b>Finish</b></li> </ol>
Expected result	User lands on Checkout Complete page
Actual result	Order completed and Cart icon cleared

<b>Test Case ID</b>	<b>SD_CHECKOUT_11</b>
Feature	Workflow
Description	Verify Cancel from Overview returns to Products and preserves cart
Precondition	User is on Checkout: Overview page with multiple items in cart
Test data	-
Test steps	1. Click <b>Cancel</b>
Expected result	User returns to Products page and items remain in the cart
Actual result	<input checked="" type="checkbox"/> Returned to Products page and items are still in cart

<b>Test Case ID</b>	<b>SD_CHECKOUT_12</b>
Feature	Workflow
Description	Verify Back Home button on Checkout: Complete returns user to the Products page
Precondition	User has completed the checkout and is on the Checkout: Overview page with multiple items previously added to the cart
Test data	-
Test steps	1. Click <b>Back Home</b> button
Expected result	User is redirected to the Products page and cart is cleared because checkout was completed
Actual result	<input checked="" type="checkbox"/> Returned to Products page and cart is empty

## Menu

<b>Test Case ID</b>	<b>SD_MENU_01</b>
Feature	Menu
Description	Verify About link opens Sauce Labs website
Precondition	User is on Products page
Test data	-
Test steps	1. Open <b>Menu</b> 2. Click <b>About</b>
Expected result	Browser opens Sauce labs website in same tab
Actual result	<input checked="" type="checkbox"/> Opened Sauce Labs site

<b>Test Case ID</b>	<b>SD_MENU_02</b>
Feature	Menu
Description	Verify Reset App State from Menu clears cart and sort
Precondition	User has items in cart and non-default sort on Products
Test data	-
Test steps	1. Open <b>Menu</b> 2. Click <b>Reset App State</b> 3. Refresh Products page 4. Click Cart icon
Expected result	All product buttons show Add to cart, sort is back to default and cart is empty
Actual result	<input checked="" type="checkbox"/> State is fully reset

<b>Test Case ID</b>	<b>SD_MENU_03</b>
Feature	Footer
Description	Verify Twitter footer link opens correct profile
Precondition	User is on Products page
Test data	-
Test steps	1. Click <b>Twitter icon</b> in footer
Expected result	Twitter profile opens in new tab
Actual result	<input checked="" type="checkbox"/> Twitter opened

<b>Test Case ID</b>	<b>SD_MENU_04</b>
Feature	Footer
Description	Verify Facebook footer link opens correct profile
Precondition	User is on Products page
Test data	-
Test steps	1. Click <b>Facebook icon</b> in footer
Expected result	Facebook profile opens in new tab
Actual result	<input checked="" type="checkbox"/> Facebook opened

<b>Test Case ID</b>	<b>SD_MENU_05</b>
Feature	Footer
Description	Verify LinkedIn footer link opens correct profile
Precondition	User is on Products page
Test data	-
Test steps	1. Click <b>LinkedIn icon</b> in footer
Expected result	LinkedIn profile opens in new tab
Actual result	<input checked="" type="checkbox"/> LinkedIn opened

## Non-functional

<b>Test Case ID</b>	<b>SD_NONFUNC_01</b>
Feature	Performance
Description	Measure time to Products page after login while having basic conditions
Precondition	User is on Login page
Test data	Username: standard_user Password: secret_sauce
Test steps	<ol style="list-style-type: none"> <li>1. Enter credentials</li> <li>2. Open <b>DevTools - Network</b></li> <li>3. Click Login button</li> </ol>
Expected result	Inventory page loads within acceptable time $\leq$ 3 seconds (Google suggests that pages should load in under 2-3 seconds for optimal user engagement.)
Actual result	<input checked="" type="checkbox"/> Products page loaded under $\leq$ 3 seconds

<b>Test Case ID</b>	<b>SD_NONFUNC_02</b>
Feature	UI
Description	Verify price format consistency
Precondition	User is on Products page
Test data	-
Test steps	<ol style="list-style-type: none"> <li>1. Review all visible prices</li> </ol>
Expected result	Each price shows \$ and two decimal places
Actual result	<input checked="" type="checkbox"/> All prices formatted with \$ and two decimal places

<b>Test Case ID</b>	<b>SD_NONFUNC_03</b>
Feature	Responsive
Description	Verify main flows on mobile viewport 412x915 (Samsung Galaxy S20 Ultra)
Precondition	User is logged in and on Products page with DevTools mobile emulation 412x915 (Samsung Galaxy S20 Ultra)
Test data	Username: standard_user Password: secret_sauce
Test steps	<ol style="list-style-type: none"> <li>1. Enter credentials and click <b>Login</b></li> <li>2. Pick random item and click <b>Add to cart</b></li> <li>3. Click <b>cart icon</b></li> <li>4. Click <b>Checkout</b></li> </ol>
Expected result	Layout should be usable, no overlapping or hidden controls
Actual result	<input checked="" type="checkbox"/> Layout is usable, no overlapping or hidden controls

<b>Test Case ID</b>	<b>SD_NONFUNC_04</b>
Feature	Accessibility
Description	Verify visible keyboard focus on interactive controls
Precondition	User is on any Sauce Demo page
Test data	-
Test steps	<ol style="list-style-type: none"> <li>1. Press Tab repeatedly to move through all interactive elements (buttons, links, inputs, menu, cart)</li> </ol>
Expected result	Each interactive element should have visible focus indicator (outline or highlight) when selected via keyboard
Actual result	<span style="color: red;">✖</span> No visible focus indicator appears when tabbing through elements.

<b>Test Case ID</b>	<b>SD_NONFUNC_05</b>
Feature	Security
Description	Verify credentials are not stored in URL or plaintext storage
Precondition	User is logged in and on Products page
Test data	-
Test steps	<ol style="list-style-type: none"> <li>1. Inspect URL parameters</li> <li>2. Open <b>DevTools - Application - Local Storage and Session Storage</b></li> </ol>
Expected result	No username or password present in URL, Local Storage or Session Storage
Actual result	<span style="color: green;">✓</span> No username or password found

<b>Test Case ID</b>	<b>SD_NONFUNC_06</b>
Feature	Security
Description	Verify sensitive data (username/password) is not stored in cookies
Precondition	User is logged in and on Products page
Test data	Username: standard_user Password: secret_sauce
Test steps	<ol style="list-style-type: none"> <li>1. Open <b>DevTools - Application - Cookies</b></li> <li>2. Review cookie name values and flags</li> </ol>
Expected result	No username or password should be visible. Only a random session ID/token
Actual result	<span style="color: red;">✖</span> Cookie session-username=standard_user is stored in clear text

<b>Test Case ID</b>	<b>SD_NONFUNC_07</b>
Feature	Stability
Description	Stress sort toggling without errors
Precondition	User is logged in and on Products page
Test data	-
Test steps	<ol style="list-style-type: none"> <li>1. Rapidly switch between all sort options for 30 seconds</li> </ol>
Expected result	There should be no crashes and list updates correctly each time
Actual result	<span style="color: green;">✓</span> No errors

<b>Test Case ID</b>	<b>SD_NONFUNC_08</b>
Feature	Reliability
Description	Verify refreshing Check Overview preserves state
Precondition	User is on Checkout Overview page
Test data	-
Test steps	1. Refresh page
Expected result	Items, totals, tax should remain visible after reload
Actual result	<input checked="" type="checkbox"/> State stayed after refresh

<b>Test Case ID</b>	<b>SD_NONFUNC_09</b>
Feature	Navigation
Description	Verify browser Back from Overview returns to step one with data intact
Precondition	User reached Overview after filling step one
Test data	-
Test steps	1. Click <b>browser Back</b>
Expected result	User should be returned to Checkout: Your information and fields retain values
Actual result	<input checked="" type="checkbox"/> Returned to step one with data intact

<b>Test Case ID</b>	<b>SD_NONFUNC_10</b>
Feature	UX
Description	Verify error messages are clear and actionable on Login and Checkout: Your information
Precondition	User is on Login page or Checkout: Your information with at least 1 item in the cart
Test data	Login: <ul style="list-style-type: none"><li>• Username: <b>standard_user</b></li><li>• Password: <b>wrongpassword</b></li></ul> Checkout: <ul style="list-style-type: none"><li>• First Name = Leave field empty</li></ul>
Test steps	1. On login page attempt login with invalid password 2. On checkout: Your information, leave First Name field empty and click <b>Continue</b>
Expected result	Login error: Epic sadface: Username and password do not match any user in this service Checkout error: Error: First Name is required
Actual result	<input checked="" type="checkbox"/> Both errors are displayed exactly as expected

<b>Test Case ID</b>	<b>SD_NONFUNC_11</b>
Feature	Performance
Description	Verify images load reasonably under throttled network
Precondition	User is logged in and on Products page with network throttled using 3G in DevTools
Test data	-
Test steps	1. DevTools - Network - Throttle (3G) 2. Observe image loading behavior
Expected result	Images should load eventually and no broken images or icons
Actual result	<input checked="" type="checkbox"/> Images load eventually and no broken images or icons

## Edge

<b>Test Case ID</b>	<b>SD_EDGE_01</b>
Feature	Edge
Description	Validate username case sensitivity on Login
Precondition	User is on login page
Test data	Username: Standard_user Password: secret_sauce
Test steps	1. Enter credentials with wrong case 2. Click login
Expected result	Login should fail if username does not exactly match the stored account
Actual result	Error message “Epic sadface: Username and password do not match any user in this service” is displayed

<b>Test Case ID</b>	<b>SD_EDGE_02</b>
Feature	Edge
Description	Validate cart state across multiple tabs
Precondition	User is logged in on two tabs on Product page
Test data	Add an item in Tab A
Test steps	1. Add item in Tab A 2. Switch to Tab B and refresh
Expected result	Cart state should match after refresh (Cart icon and Cart items)
Actual result	State matched in both tabs after refresh

<b>Test Case ID</b>	<b>SD_EDGE_03</b>
Feature	Edge
Description	Validate direct deep link to an item detail works within session
Precondition	User is logged in and on Products page
Test data	Add an item in Tab A
Test steps	3. Open deep link URL 4. Click Back to products
Expected result	Product detail should open and clicking Back to products returns to Products
Actual result	Deep link worked and clicking Back to products returned to Products

## Completed Test cases and Report:

Test Case ID	Description	Status	Actual results Date of testing: 23.09.2023 Browser: Chrome Version140.0.7339.127 (Official Build) (64-bit)
SD_LOGIN_01	Verify login with valid <b>standard_user</b> username	✓	User redirected to Product page with 6 products visible.
SD_LOGIN_02	Verify <b>locked_out_user</b> can't log in and shows error	✓	Error message "Epic sadface: Sorry, this user has been locked out" is displayed
SD_LOGIN_03	Verify login fails with an invalid password and the correct error message is shown	✓	Error message "Epic sadface: Username and password do not match any user in this service" is displayed
SD_LOGIN_04	Verify error for blank username and password	✓	Error message "Epic sadface: Username is required" is displayed
SD_LOGIN_05	Verify error for blank password only	✓	Error message "Epic sadface: Password is required" is displayed
SD_LOGIN_06	Verify password field masks characters	✓	Password hidden while typing
SD_LOGIN_07	Verify Logout clears session and unable to access "Products" page	✓	Redirected to login page when opening Products page
SD_LOGIN_08	Verify protected pages are blocked when logged out	✓	Redirected to login page and error message is displayed
SD_LOGIN_09	Verify Enter key submits login form	✓	Login successful via Enter key
SD_LOGIN_10	Verify error banner can be dismissed and reappears on next invalid submit	✓	Dismissal works and error shows again on next submit
SD_INV_01	Verify Products page shows 6 items with name, price, image and Add to cart button	✗	All 6 tiles are displayed correctly: description, price, product image and Add to card button. Displayed name is "Test.allTheThings() T-Shirt (Red)" instead of "Sauce Labs Red T-Shirt"
SD_INV_02	Verify sorting by Name (A to Z) orders items alphabetically ascending	✓	Order was A to Z
SD_INV_03	Verify sorting by Name (Z to A) orders items alphabetically descending	✓	Order was Z to A
SD_INV_04	Verify sorting by Price (low to high) uses numeric ascending order	✓	Prices sorted low to high
SD_INV_05	Verify sorting by Price (high to low) uses numeric descending order	✓	Prices sorted high to low
SD_INV_06	Verify clicking product title opens detail page	✓	Detail opened correctly via product title
SD_INV_07	Verify clicking product image opens same detail page	✓	Detail opened correctly via product image
SD_INV_08	Verify product images have correct alt texts	✗	All 6 images contain alt attributes, but one product has incorrect alt text: - Test.allTheThings() T-Shirt (Red) instead of the expected Sauce Labs Red T-Shirt.
SD_INV_09	Verify sort selection persists after visiting a detail page and navigation back	✗	Sort is not persisted When navigating back, Products page reverts to default sort (Name A-Z)
SD_INV_10	Verify Reset App State clears cart and returns default sorting	✓	Cart is cleared and sort returns to default sorting

<b>SD_CART_01</b>	Verify adding an item to cart from inventory tile updates button and cart icon	<input checked="" type="checkbox"/>	Button switches to Remove and cart icon shows 1
<b>SD_CART_02</b>	Verify removing an item from inventory tile reverts button and cart icon	<input checked="" type="checkbox"/>	Button returned to Add to cart and icon went to 0
<b>SD_CART_03</b>	Verify adding an item to cart from products detail page updates button and cart icon	<input checked="" type="checkbox"/>	Selected product tile button showed Remove and cart icon increased by 1
<b>SD_CART_04</b>	Verify Cart page lists selected items with correct quantity and prices	<input checked="" type="checkbox"/>	Two items listed have correct quantity and prices
<b>SD_CART_05</b>	Verify removing an item in Cart updates totals and icon number	<input checked="" type="checkbox"/>	Row removed and cart icon updated
<b>SD_CART_06</b>	Verify Continue Shopping returns to Products page and preserves cart	<input checked="" type="checkbox"/>	Returned to products page and cart is unchanged
<b>SD_CART_07</b>	Verify cart icon count number shows correct number by adding multiple different items	<input checked="" type="checkbox"/>	Cart icon shows 3 items
<b>SD_CART_08</b>	Verify state sync when adding item in product detail page and removing from products page list	<input checked="" type="checkbox"/>	States synced and correct cart icon number
<b>SD_CART_09</b>	Verify cart contents stay after page refresh	<input checked="" type="checkbox"/>	Cart stays after page refresh
<b>SD_CART_10</b>	Verify add/remove toggle works repeatedly without desync	<input checked="" type="checkbox"/>	Toggle remained consistent
<b>SD_CHECKOUT_01</b>	Verify clicking "Checkout" on Cart navigates to "Checkout: Your information" page	<input checked="" type="checkbox"/>	Navigation "Checkout: Your information page" was successful
<b>SD_CHECKOUT_02</b>	Verify First Name is mandatory on Checkout: Your information page	<input checked="" type="checkbox"/>	Error message is displayed
<b>SD_CHECKOUT_03</b>	Verify Last Name is mandatory on Checkout: Your information page	<input checked="" type="checkbox"/>	Error message is displayed
<b>SD_CHECKOUT_04</b>	Verify Postal Code is mandatory on Checkout: Your information page	<input checked="" type="checkbox"/>	Error message is displayed
<b>SD_CHECKOUT_05</b>	Verify that mandatory field (First Name, Last Name, Postal Code) are visually indicated as required on Checkout: Your Information	<input checked="" type="checkbox"/>	Fields are mandatory but have no visual indicators. User only discovers the requirement after submitting and receiving error messages.
<b>SD_CHECKOUT_06</b>	Verify valid info proceeds to Checkout Overview	<input checked="" type="checkbox"/>	Navigation is successful
<b>SD_CHECKOUT_07</b>	Verify item totals equals the sum of item prices on Checkout: Overview	<input checked="" type="checkbox"/>	Item total matched manual sum
<b>SD_CHECKOUT_08</b>	Verify Total equals Item totals plus Tax on Checkout: Overview	<input checked="" type="checkbox"/>	Total equaled Item Total + Tax
<b>SD_CHECKOUT_09</b>	Verify item total and tax values are displayed with correct decimal formatting	<input checked="" type="checkbox"/>	Displayed Item total have more than 2 decimal places.
<b>SD_CHECKOUT_10</b>	Verify Finish completes the order and clears the cart	<input checked="" type="checkbox"/>	Order completed and Cart icon cleared
<b>SD_CHECKOUT_11</b>	Verify Cancel from Overview returns to Products and preserves cart	<input checked="" type="checkbox"/>	Returned to Products page and items are still in cart
<b>SD_CHECKOUT_12</b>	Verify Back Home button on Checkout: Complete returns user to the Products page	<input checked="" type="checkbox"/>	Verify Back Home button on Checkout: Complete returns user to the Products page
<b>SD_MENU_01</b>	Verify About link opens Sauce Labs website	<input checked="" type="checkbox"/>	Opened Sauce Labs site

<b>SD_MENU_02</b>	Verify Reset App State from Menu clears cart and sort	<input checked="" type="checkbox"/>	State is fully reset
<b>SD_MENU_03</b>	Verify Twitter footer link opens correct profile	<input checked="" type="checkbox"/>	Twitter opened
<b>SD_MENU_04</b>	Verify Facebook footer link opens correct profile	<input checked="" type="checkbox"/>	Facebook opened
<b>SD_MENU_05</b>	Verify LinkedIn footer link opens correct profile	<input checked="" type="checkbox"/>	LinkedIn opened
<b>SD_NONFUNC_01</b>	Measure time to Products page after login while having basic conditions	<input checked="" type="checkbox"/>	Products page loaded under ≤ 3 seconds
<b>SD_NONFUNC_02</b>	Verify price format consistency	<input checked="" type="checkbox"/>	All prices formatted with \$ and two decimal places
<b>SD_NONFUNC_03</b>	Verify main flows on mobile viewport 412x915 (Samsung Galaxy S20 Ultra)	<input checked="" type="checkbox"/>	Layout is usable, no overlapping or hidden controls
<b>SD_NONFUNC_04</b>	Verify visible keyboard focus on interactive controls	<input type="checkbox"/>	No visible focus indicator appears when tabbing through elements.
<b>SD_NONFUNC_05</b>	Verify credentials are not stored in URL or plaintext storage	<input checked="" type="checkbox"/>	No username or password found
<b>SD_NONFUNC_06</b>	Verify sensitive data (username/password) is not stored in cookies	<input type="checkbox"/>	Cookie "session-username=standard_user" is stored in clear text
<b>SD_NONFUNC_07</b>	Stress sort toggling without errors	<input checked="" type="checkbox"/>	There should be no crashes and list updates correctly each time
<b>SD_NONFUNC_08</b>	Verify refreshing Check Overview preserves state	<input checked="" type="checkbox"/>	State stayed after refresh
<b>SD_NONFUNC_09</b>	Verify browser Back from Overview returns to step one with data intact	<input type="checkbox"/>	Returned to step one with data intact
<b>SD_NONFUNC_10</b>	Verify error messages are clear and actionable on Login and Checkout: Your information	<input checked="" type="checkbox"/>	Both errors are displayed exactly as expected
<b>SD_NONFUNC_11</b>	Verify images load reasonably under throttled network	<input type="checkbox"/>	Images load eventually and no broken images or icons
<b>SD_EDGE_01</b>	Validate username case sensitivity on Login	<input checked="" type="checkbox"/>	Error message "Epic sadface: Username and password do not match any user in this service" is displayed
<b>SD_EDGE_02</b>	Validate cart state across multiple tabs	<input checked="" type="checkbox"/>	State matched in both tabs after refresh
<b>SD_EDGE_03</b>	Validate direct deep link to an item detail works within session	<input checked="" type="checkbox"/>	Deep link worked and clicking Back to products returned to Products

## Test Summary

Executed 55 manual test cases on the SauceDemo web application covering login, product inventory, cart, checkout, menu, footer, non-functional and edge scenarios. Out of 55 cases 48 passed and 7 failed.

Web application demonstrates strong functional stability:

- Login and session handling work correctly across all tested scenarios.
- Basic shopping flows (adding items, cart updates, checkout navigation) performs as expected.
- Sorting, navigation and workflow consistency are reliable.

However, several issues were identified:

- Usability gaps such as missing required field indicators on checkout
- Accessibility issues including missing focus indicators for keyboard navigation.
- Data quality problems such as mislabeled product name and incorrect alt text.
- Formatting defect where price totals display excessive decimal places.
- Security concern where the username is stored in cookies in plain text

## Overall Assessment

The web application is suitable for demo and basic e-commerce workflows. To improve quality and align with best practices we recommend addressing the identified defects with priority on security and accessibility.