**SauceDemo Functional Requirements**

**Title: SauceDemo Functional Requirements  
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Author: QA Team  
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**1. Overview**

**This document specifies the functional requirements for the SauceDemo web application, a demo e-commerce platform designed for testing automation tools (e.g., Selenium, Playwright). The application simulates an online shopping experience with user authentication, product browsing, cart management, and checkout processes.**

**2. Main Features**

* **Login Screen: A secure login page with fields for username and password, supporting multiple user types for testing scenarios.**
* **Product Catalog: A browsable inventory displaying product names, descriptions, prices, images, and “Add to Cart” buttons, with sorting options by name (A-Z, Z-A) and price (low to high, high to low).**
* **Shopping Cart View: A cart page listing added products with options to remove items, continue shopping, or proceed to checkout, including a badge showing item count.**
* **Checkout Process: A multi-step checkout with:**
  + **Customer information form (first name, last name, postal code).**
  + **Order overview summarizing items, prices, and total (with tax).**
  + **Confirmation screen displaying a success message.**
* **Navigation Menu: A sidebar menu with links for “All Items,” “About” (external Sauce Labs page), “Logout,” and “Reset App State.”**
* **Social Media Links: Footer links to Twitter, Facebook, and LinkedIn for external engagement.**

**3. User Actions**

* **Login: Users can log in with valid or invalid credentials, with distinct behaviors for different user types (standard, locked-out, problem, performance glitch).**
* **Browse Products: Users can view the product catalog, sort items by name or price, and access product details.**
* **Manage Cart: Users can add multiple products to the cart, remove items, and view the cart’s contents.**
* **Checkout: Users can fill out the checkout information form, review the order summary, and submit to complete the order.**
* **Navigate: Users can access the sidebar menu to return to the inventory, visit the About page, log out, or reset the application state.**
* **Interact with Social Links: Users can click footer links to visit social media pages.**

**4. Edge Cases**

* **Invalid Credentials: Attempting login with incorrect username/password displays an error message (e.g., “Username and password do not match”).**
* **Locked-Out User: Login attempt with locked\_out\_user displays a specific error (e.g., “Sorry, this user has been locked out”).**
* **Problem User: Login with problem\_user triggers UI issues (e.g., broken images or incorrect product data) for testing.**
* **Performance Glitch User: Login with performance\_glitch\_user simulates delays (5–10 seconds) for performance testing.**
* **Empty Cart Checkout: Attempting checkout with an empty cart displays an appropriate error or prevents progression.**
* **Invalid ZIP Code: Entering an invalid postal code (e.g., empty or non-numeric) in the checkout form triggers a validation error.**
* **Network Failure: Simulating network issues during order submission displays a retry option or error message.**

**5. Credentials for Testing**

**The following credentials are provided for testing different scenarios:**

* **Standard User:**
  + **Username: standard\_user**
  + **Password: secret\_sauce**
  + **Behavior: Full access to all features.**
* **Locked-Out User:**
  + **Username: locked\_out\_user**
  + **Password: secret\_sauce**
  + **Behavior: Denied access with a locked-out error.**
* **Problem User:**
  + **Username: problem\_user**
  + **Password: secret\_sauce**
  + **Behavior: Experiences UI or functional issues (e.g., broken images).**
* **Performance Glitch User:**
  + **Username: performance\_glitch\_user**
  + **Password: secret\_sauce**
  + **Behavior: Simulates slow response times.**

**6. Acceptance Criteria**

* **All main features (login, product catalog, cart, checkout, navigation, social links) are functional and accessible with standard\_user.**
* **User actions are consistently executable across supported browsers (Chrome, Firefox, Edge).**
* **Edge cases are handled with clear, actionable error messages or expected behaviors.**
* **Test credentials enable distinct testing scenarios as described.**
* **UI elements include unique identifiers (IDs/classes) for automation testing reliability.**

**7. References**

* **SauceDemo website:** [**https://www.saucedemo.com/**](https://www.saucedemo.com/)
* **Sauce Labs documentation:** [**https://saucelabs.com/**](https://saucelabs.com/)