SauceDemo Test Plan

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Application: https://www.saucedemo.com

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1. Introduction

This test plan covers the manual and automation testing strategies for SauceDemo web application focusing on core user flows critical for end-user experience and business functionality.

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2. Objectives

- Verify key functional workflows: user login, product management, and checkout process.

- Ensure UI/UX consistency across devices and error handling.

- Automate critical flows to improve test coverage and execution speed.

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3. Manual Testing Scope

Area	Description
Functional	Login, add to cart, remove from cart, checkout
UI/UX	Layout responsiveness, error messages, navigation
Negative & Edge	Invalid login, empty inputs, whitespace validation

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4. Automation Testing Scope

Automate the following workflows using Playwright with Python:

- Login with valid credentials

- Add product to cart and verify cart badge

- Complete checkout with valid user information

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5. Test Case Highlights

ID	Test Case Description	Expected Outcome
TC-01	Valid user login	Redirect to inventory page
TC-02	Add product to cart	Cart badge increments, product appears in cart
TC-03	Checkout with valid data	Order completed confirmation displayed
TC-04	Checkout with blank fields	Error message prevents progress
TC-05	Responsive UI on mobile	Elements visible and usable

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6. Deliverables

- **Manual Test Cases:** Documented with steps, expected/actual results, and status.

- **Bug Report:** 4+ issues found including validation and UI bugs with screenshots.

- **Automation Scripts:** Playwright Python scripts with README in public GitHub repo.

- **Demo Video:** 1-2 minutes showing automated tests running successfully.

8. Conclusion

This test plan ensures comprehensive coverage of critical user flows through both manual and automated testing, increasing confidence in application quality and supporting agile delivery.