Test Plan – Login Feature (SauceDemo)

# 1. Objective

This document outlines the test strategy and execution plan for the Login feature of the SauceDemo application (https://www.saucedemo.com). The goal is to validate that the login functionality behaves as expected across various test conditions including valid, invalid, and edge-case inputs.

# 2. Scope

Inclusions:  
- Login page field validations (email & password)  
- Successful login redirection  
- UI responsiveness across devices  
- Error handling and messages  
  
Exclusions:  
- Forgot password functionality  
- User signup and registration

# 3. Test Environments

Environment URL:  
- Production: https://www.saucedemo.com  
  
Devices:  
- Windows 10 – Chrome, Firefox  
- Android – Chrome  
- iOS – Safari

# 4. Test Strategy

Test Design Techniques:  
- Equivalence Partitioning  
- Boundary Value Analysis  
- Negative Testing  
- Exploratory Testing  
Types of Testing:  
- Smoke Testing  
- Functional Testing  
- UI Testing  
- Negative Testing  
- Boundary Testing  
- Regression Testing  
- Exploratory Testing  
  
We begin with smoke testing, followed by detailed functional testing once a stable build is confirmed. Bugs are tracked daily and test cycles are repeated as necessary.

# 5. Test Schedule

Task Schedule:  
- Test Plan Creation: April 22, 2025  
- Test Case Design: April 22, 2025  
- Test Execution: April 23, 2025  
- Report Submission: April 24, 2025

# 6. Test Deliverables

- Test Plan Document  
- Test Case Sheet  
- Bug Report Document  
- Test Summary Report

# 7. Entry and Exit Criteria

Entry Criteria:  
- Login feature is deployed and accessible  
- Test environment is ready  
  
Exit Criteria:  
- All planned test cases executed  
- Critical bugs fixed and retested  
- Test summary report submitted

# 8. Test Execution

Manual execution of predefined test cases with bug logging in structured documentation. Regression cycles are run after bug fixes.

# 9. Test Closure

Entry:  
- All bugs triaged and documented  
  
Exit:  
- Test summary created  
- QA lead sign-off received

# 10. Tools

- Google Sheets (Test Cases)  
- Google Docs (Bug Reports, Test Plan)  
- Chrome DevTools  
- Snipping Tool (Screenshots)

# 11. Risks and Mitigations

Risk: Website becomes unavailable  
Mitigation: Pause testing, retry later  
  
Risk: Device/browser compatibility issues  
Mitigation: Use alternate environments  
  
Risk: Time constraints  
Mitigation: Prioritize high-risk test scenarios

# 12. Approvals

Document Review Status:  
- Test Plan: Approved by QA Lead  
- Test Cases: Approved by QA Lead  
- Bug Reports: In Review by Developer  
- Summary Report: Pending Stakeholder Approval