Test Plan – Login Feature (SauceDemo)

# 1. Objective

This document outlines the test strategy and execution plan for the Login feature of the SauceDemo application. 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 (username & 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  
  
Initially the test will start 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

- MS Excel (Test Cases)  
- MS Docs (Bug Reports, Test Plan)  
- Chrome DevTools

# 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