Bug Observation Report – Janitri Login Page Automation

Project: QA Internship Assignment – Login Page Automation
Name: Sriharisudhan Pachiyappan
Tools Used: Java 21, Selenium WebDriver 4.23, TestNG 7.10.1, Maven
Framework Design: Page Object Model (POM)
Test Suite Name: Janitri Login Suite
Date of Execution: 31 July 2025

1. Test Summary

- **Total Test Cases Automated:** 4
- **Test Cases Passed:** 3
- **Test Cases Failed:** 1
- **Execution Result:** Partially Passed (1 valid defect detected)

2. Automated Test Scenarios

The following scenarios were automated as per the assignment PDF:

1. Login with blank fields and verify UI behavior.
2. Enter invalid credentials and capture displayed error message.
3. Validate password masking/unmasking (eye icon toggle).
4. Validate presence of page elements (User ID, Password, Login button, Eye icon).

3. Test Execution Results

Test Case	Expected Behavior	Actual Result	Status
Login with blank fields	Login button should be disabled	Button is enabled even with blank fields	**Failed (Bug)**
Invalid login error message	Show error message	"Invalid Credentials" displayed as expected	Passed
Password toggle (eye icon)	Toggles password visibility	Eye icon works correctly	Passed
Page element validation	All required fields/icons are visible	All elements present	Passed

4. Defect Details (from TestNG Report)

Failure:

java.lang.AssertionError:

Login button enabled with empty fields.

expected [true] but found [false]

at com.janitri.tests.LoginTest.testLoginButtonDisabledWhenFieldsEmpty(LoginTest.java:14)

Execution Time: 85 ms
Suite: Janitri Login Suite
Result: 3 Passed, 1 Failed (This failure indicates a real UI issue).

Test	# Passed	# Skipped	# Retried	# Failed	Time (ms)	Included Groups	Excluded Groups
Janitri Login Suite							
Login Tests	3	0	0	1	17,215		

Class	Method	Start	Time (ms)
Janitri Login Suite			
Login Tests — failed			
com.janitri.tests.LoginTest	testLoginButtonDisabledWhenFieldsEmpty	1753975331059	85
Login Tests — passed			
com.janitri.tests.LoginTest	testInvalidLoginErrorMessage	1753975327432	599
	testPageElementsPresence	1753975334700	68
	testPasswordEyeIconToggle	1753975338049	231

Login Tests

com.janitri.tests.LoginTest#testLoginButtonDisabledWhenFieldsEmpty

Exception
java.lang.AssertionError: Login button enabled with empty fields. expected [true] but found [false] at com.janitri.tests.LoginTest.testLoginButtonDisabledWhenFieldsEmpty(LoginTest.java:14) at java.base/java.util.ArrayList.forEach(ArrayList.java:1596) ... Removed 32 stack frames

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com.janitri.tests.LoginTest#testInvalidLoginErrorMessage

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com.janitri.tests.LoginTest#testPageElementsPresence

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Figure 1: TestNG Report Screenshot showing failed test and details

5. Key Defect Identified

- **Bug:** Login button remains enabled even when both User ID and Password fields are empty.
- **Impact:** Violates basic UI validation rules; allows login attempt without input, increasing risk of invalid backend calls.
- **Severity:** Medium (UI validation defect).
- **Evidence:** Captured via automation failure in TestNG (screenshot/report attached).

6. Conclusion

- The automation framework meets all PDF requirements using Java, Selenium WebDriver, TestNG, Maven, and POM.
- Test execution successfully identified a genuine UI defect.
- The final report demonstrates both proper framework implementation and defect detection.