Metrics Reporting Plan for Assert Testing
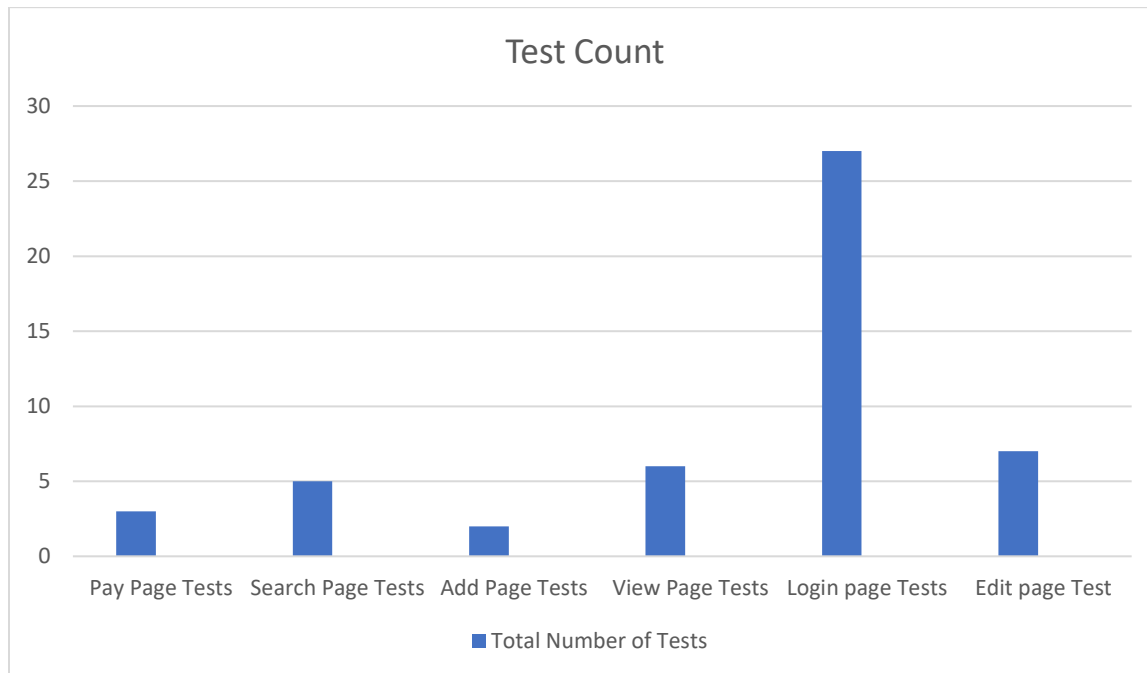
Methodology Approach

This plan is designed to look at groups of assert tests and state what they test for, how many tests they have total, what different inputs they are testing for, who ran the tests, and whether or not they all passed. It measures how much the tests are covering and the status of the tests. The plan will tell us the success of our current tests and whether or not we will need to add on additional assert tests in the future.

Collected Metrics Measurement

Activity	Metric Measure	number of tests	Test Inputs	Source	Current State
Tests that employee has the correct ID, classification and pay	Assert	3	ID numbers: 2, 3, 7	Jordan	Passed
searches for a user that should be in the database	Assert	5	ID numbers: 5, 1, 100 Last name: johnasdk, LastNameChanged	Jordan	Passed
Tests that fields are registered as valid when valid results are input	Assert	1	Employee object: With all valid field	Jordan	Passed
Tests that fields are registered as invalid when invalid results are input	Assert	1	Employee object: Missing one field	Jordan	Passed
Tests that the information shown on the general users viewpage matches their informatin in the database	Assert	4	ID numbers: 8, 2, 3, 4	Jordan	Passed
Tests that the information shown on the admin users viewpage matches their information in the database	Assert	2	ID numbers: 8, 6	Jordan	Passed
Tests that using the correct username and ID does NOT trigger the	Assert	7	ID numbers: 8, 2, 3, 4, 5, 6, 7	Jordan	Passed

"Incorrect password or ID" message					
Tests that using the incorrect username but correct password does trigger the "Incorrect password or ID" message	Assert	8	ID numbers: Jim, tony, 123, 57, gfad, wrong, almost, so close	Jordan	Passed
tests that using the incorrect password but correct username does trigger the "Incorrect password or ID" message	Assert	11	Passwords: tests, test!, tesT, Test, nope, tESt, password, letMeIn, please, prettyplease, 123456	Jordan	Passed
Tests that all fields are valid when valid inputs are given	Assert	6	ID numbers: 8, 2, 3, 4, 6	Jordan	Passed
test_edit_invalid_variable	Assert	1	Employee object: Invalid fields	Jordan	Passed

Data Summary

Test Count

Pay Page Tests	3
Search Page Tests	5
Add Page Tests	2
View Page Tests	6
Login page Tests	27
Edit page Test	7

■ Total Number of Tests

Report Analysis

Summary

- All tests passed
- Large discrepancy in test count between pages

- No boundary tests

Future prediction of current project

- Most features that get added on in future versions of the project will have a lower amount of tests with a few having much more thorough testing.
- While most cases will work, as the product's features expand the product may show errors in unique cases because of the lack of boundary testing

Possible improvements for Future

- Add boundary testing
- Increase the number of tests run for most pages