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 "Incorrect password or ID" message | Assert | 7 | ID numbers:  8, 2, 3, 4, 5, 6, 7 | Jordan | Passed |
| 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

# 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