

Software test plan

The process:

We are running on a test first development process; so tests for the application will be designed prior to any coding, and the created application will have to meet up to the specified test plan in order to be committed. The tests will be designed with the customers requirements specification explicitly in mind in order to guarantee the created application as closely matches what the client wants as possible.

We will build use cases from the project requirements brief, and the tests will be tailored to specifically meet those use cases.

Test results will be recorded in the acceptance test documents which will list the:

- Use case the test is based off of
- Description of the test
- The desired result
- Whether the application was successful
- Notes if the application was unsuccessful

Each iteration of the program will need to pass the previous tests in order to be committed. Then the tests will be written as JUnits so it is simple to verify that each new build can be accepted and meets the clients demands.

Any issues encountered during the testing may be added to the 'issues' list on gitlab for the other programming pair to review.

The tests:

For this stage we will test the 'login' and 'logout' functionalities of the program. For this, we will need to test:

- Whether or not the login details are valid
- Whether or not there is a response for when no details are provided at all
- Whether or not a user can log out successfully

The test for a valid 'login' will take two Strings as parameters and it will return a boolean of whether or not those Strings match the values in the database. This method will assert the result as true; the invalid login method will require the same parameters but assert that the result of the login is false. If no parameters have been supplied then the boolean value should return false and print an error message for the user to see. Users will only be able to logout when they have been successfully logged in, so a variable will have to record the status of the login before logging out.

