

Testing and bug report outline

Upon review and further development of the project, we encountered an issue in which we had no method in order to report bugs or faults during software development, we have now defined a template for bug reporting, which will outline the problem encountered and how it happened. Using this bug report we can work to solve the bug and implement a solution to the program.

Also during review we noticed we had not defined a concrete method to test our program, after finishing most of the development we realised a mistake in which we had not clearly defined our plan or process in carrying out software tests. We have now decided to use JUnit for software tests, as it will provide a rigid way to test our program and ensure it works correctly. Below, our tests have been previously specified. In order to successfully carry out these tests we will follow the process below;

- Creating a JUnit test
- Carry out the test
- Document the test (We have defined a template for documenting tests)

A member of the group will carry out the test when necessary and then document these, and upload the documented test to gitlab. From here the group can review the test and then work together to come to a solution to any errors if they occur during testing.

Some of the tests that we will be running in JUnit are described and outlined below. These will be implemented later using JUnit when possible. JUnit tests will be documented in a backend test template. We have also decided to create a front-end template, which will be used to test and document the front end aspects of the program, this however will not be done with JUnit but rather manually testing aspects of the user interface, but they will still follow the same guidelines as listed above.

Log In.

- Try to login in with 3 different users.
- Try to login with a real user and fake password.
- Try to log in with a fake user.
- Try to names with special characters, including “).
- Check if previous tests were logged correctly.

Log out.

- Try to log out.
- Try to log out without a server connection.
- Check if previous tests were logged correctly.

Authorisation check.

- Try to authenticate as user with access rights.
- Try to authenticate as user without access rights
- Try to authenticate without server connection
- Check if previous tests were logged correctly

Read personal details record.

- Try to read users own record.

- Try to read a non-existent record.

- Try to read a record without server connection.

- Check if previous tests were logged correctly.

Create personal details record.

- Try to create a record then read it.

- Try to create a record without server connection then read it.

- Check if previous test was logged correctly.

Amend personal details record.

- Try to amend a record, then read it.

- Try to amend a record without server connection then read it.

- Try to amend a non-existent record.

- Try to amend a record without saving then read it.

- Check if previous tests were logged correctly.

Create new review record.

- Try to create a record then read it.

- Try to create a record without server connection then read it.

- Try to create a record without saving then read it.

- Check if previous tests were logged correctly.

Read review record.

- Try to read non-existent record.

- Try to read a record.

- Try to read a record without server connection.

- Check if previous tests were logged correctly.

Amend review record.

- Try to amend a record, then read it.

- Try to amend a record without server connection then read it.

- Try to amend a non-existent record.

- Try to amend a record without saving then read it.

- Check if previous tests were logged correctly.

Read past completed review record.

- Try to read non-existent record.

- Try to read a record.

- Try to read a record without server connection.

- Check if previous tests were logged correctly.

Perform review

- Perform a complete review and check logs.

- Perform an incomplete review and check logs.

Allocate reviewer

- Try to assign a valid reviewer.
- Try to assign a non-senior reviewer.
- Try to assign a non-existent reviewer.
- Check previous tests were logged correctly.

Log Action

- Try to log an action without user
- Try to create log without giving the method any data
- Try all actions that include log action
- Check if correct record created in log
- Check if record created contains correct information