

CSCI 3060U Software Quality Assurance – Phase 1

OT-BnB - Test Plan

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Organization

For this project the tests will be organized in the following manner, each test are in their own respective directories such as createTests, deleteTests, loginTests, logoutTests, postTests, rentUnitTests, and searchRentalTests. Within each of these files are their respective input and output files, stored in their own directories, for example inside the createTests directory there are 2 directories createInputs and createOutputs, inside of these directories are there are .input and .output files marking whether it is an input or output file. In the root directory of createTests there is also a .txt file outlining the type of tests that the input and output files are going to test for each of their respective tests. The output of each test as mentioned before is stored in files ending in .output inside its own <test>Outputs directory.

Sample Directory Structure:

Phase-1/

```
|----- createTests/
|
|----- createInputs/
|
|----- create00.input
|----- create01.input
|----- createXX.input
|
|----- createOutputs/
|
|----- create00.output
|----- create01.output
|----- createXX.output
|
|----- create_test_cases.txt
```

Test Run

To execute the front end for the application, the tests will be run in a terminal shell. The tests will be run using java and will run each input file tests and compare it to the expected output for those respective tests.

Unexpected input match with output will result in an error and throwing an end of session code '00'.

When running tests each test will have two tests that will check the integrity of the input, one test will check the expected output and the other test will check the integrity of the unexpected output, this will ensure software robustness for the duration of the development process.

Requirements Problems

Upon analyzing the document for the requirements of the project, a problem that can be seen is that the rental id is stated to be needed, but it does not follow a standard format, the problem with this is that when testing it becomes hard to analyze the id type. A format for the rental id such as CCIIIIII can be used where CC represents the city abbreviation and IIIII represents a numeric id. This would make testing much easier.