Test Report for the Server-Client File Management System

1)Login Testing:

This test is used to check various case scenarios where the user can login into the system.

Test Case 1:

In this scenario, the user who is already registered into the system tries to login to the system. This is a generalized case. Where the user usually logins without any problem. This is an essential scenario in any case.

Test Case 2:

In this scenario, the user tries to login to the system with the credentials of the user who is already logged into the system. The system must reject the login stating the credentials are already logged in. This is an essential scenario to test the security of the file system.

Test Case 3:

In this scenario, the user who is not registered into the system tries to login. The system must reject the user to login into the system. This scenario is necessary to state that registration is necessary for any new user.

These scenarios are considered necessary as they check almost every other case.

2)Creating folder testing:

This test is used to check various case scenarios during the creation of the folder.

Test Case 1:

In this scenario, the system is provided with a path to where the file must be created. Here the system must be able to create a folder in the specified path without any issues.

Test Case 2:

In this scenario, the system is provided with the same path and folder name previously. The system must not create a duplicate folder and reply that the folder already exists.

These cases are crucial for testing. The part which is not tested is where the path is given a file to create a folder.

3)writing file testing:

This test is used to check various case scenarios when a writing file.

Test Case 1:

In this case, a new file name which is not present in the present working directory is given. The system should be able to create a new file and write the text into it.

Test Case 2:

In this case, the file name which already exists in the path is given to write the text. The system should be able to append the text into it rather than overwriting.

Test Case 3:

In this case, the write file command is given without any entry. The system should be able to clear the file and acknowledge the user.

These cases are tested in the test file.

4)Change folder testing:

This test is used to test various cases during the change of the directory.

Test Case 1:

In this test case current working directory is given and the folder to which the path must change exists in the folder. This is a general testcase where the system must be able to forward the user directory.

Test Case 2:

In this test case the folder which is not in the path is given. Here, the system should reject to change the folder path.

Test Case 3&4:

In this test case changing the path backwards i.e., coming back to the previous origin folder happens. The system must be able to do this without any errors.

Test Case 5:

In this test case, checks whether moving backwards is possible even when cwd is at root. The system must restrict the user to move backwards to root folder so that the user cannot access files of other users.

These are the possible testcases. And all parts of the functionality is checked.

5)Read file testing:

This test is used to test various cases during the reading of the files from a given directory.

Test Case 1:

In this test case, none type is passed to read the file and the system should be able to reply user to mention the file to read.

Test Case 2:

In this test case, a file is sent to read in the path. The system must be able to read first 100 characters in the file. Consecutive calls o this command must display the subsequent 100 characters.

Test Case 3:

In this test case, none type is sent again. But this time the reading of the present file must be closed. This case tests the system to close the reading if the present opened file.

Reading of 100 characters is tested in the file. The client side functionalities are not tested as the client side is more passive.

These are various tests and various cases tested in the *Tests.py* file.