

Test Summary for Lab 3

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Purpose

This report provides a summary of the manual testing conducted to verify rules for user ID login.

Application Overview

The application is a command-line based authentication server written in Python. It allows a user to do three things listed below.

- Create an account with a valid password.
- Log in with a valid user name and password.
- Change the password of an existing account.

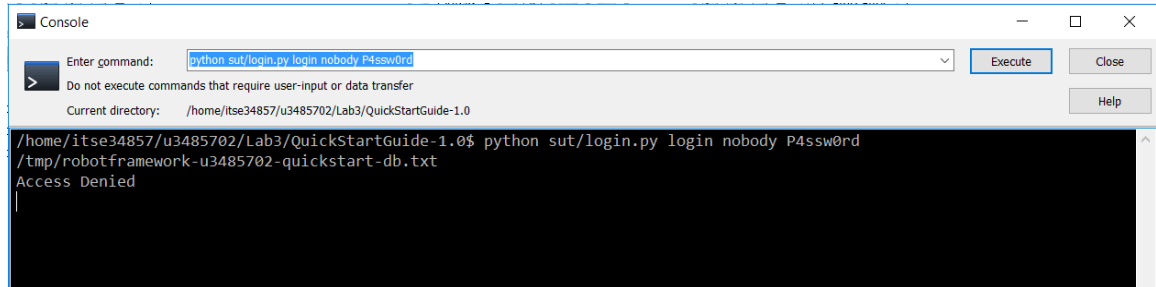
The application uses a simple database file to keep track of user statuses. The file is located in a temporary folder that is unique to an operating system.

Manual testing

List of all test cases along with output and description

The login application was tested manually. A brief description along with the output of each manual test is provided below.

1. Attempted to log in with a non-existent user account resulted in an *Access Denied* message. See snapshot of the Winscp terminal window below:



```

Console
Enter command: python sut/login.py login nobody P4ssw0rd
Do not execute commands that require user-input or data transfer
Current directory: /home/itse34857/u3485702/Lab3/QuickStartGuide-1.0
Execute Close Help

/home/itse34857/u3485702/Lab3/QuickStartGuide-1.0$ python sut/login.py login nobody P4ssw0rd
/tmp/robotframework-u3485702-quickstart-db.txt
Access Denied
  
```

In this test, the access was rightly denied when a non-existent user account called **login** was used to login.

2. Attempted to log in with an invalid password also resulted in an *Access Denied* message.
3. Created a user account with valid password login that resulted in *SUCCESS* message as shown in the snapshot below.

```

/home/itse34857/u3485702/Lab3/QuickStartGuide-1.0$ python sut/login.py create fred P4ssw0rd
/tmp/robotframework-u3485702-quickstart-db.txt
fred
P4ssw0rd
SUCCESS
  
```

In this test, a user account with user name *fred* and password *P4ssw0rd* was created.

4. Logging in with the user name and password created in step #3 resulted in *Logged In* message as shown in the snapshot below.

```

/home/itse34857/u3485702/Lab3/QuickStartGuide-1.0$ python sut/login.py login fred P4ssw0rd
/tmp/robotframework-u3485702-quickstart-db.txt
Logged In
  
```

Access was rightly given to the user *fred* since correct credentials were used to login.

5. When a password that was not 7 to 12 characters long was used, the application threw the error *Creating user failed: Password must be 7-12*

characters long. See snapshot below.

```
/home/itse34857/u3485702/Lab3/QuickStartGuide-1.0$ python sut/login.py create fred short
/tmp/robotframework-u3485702-quickstart-db.txt
fred
short
Creating user failed: Password must be 7-12 characters long
```

6. Also, when a password that did not contain a combination of both lower case and upper case letters was not used, the application threw the error *Password must be a combination of lowercase and uppercase letters and numbers*.

```
/home/itse34857/u3485702/Lab3/QuickStartGuide-1.0$ python sut/login.py create fred invalid
/tmp/robotframework-u3485702-quickstart-db.txt
fred
invalid
Creating user failed: Password must be a combination of lowercase and uppercase letters and numbers
```

7. Changing password with invalid credentials i.e. wrong password resulted in *Access Denied* message as shown in the snapshot below.

```
/home/itse34857/u3485702/Lab3/QuickStartGuide-1.0$ python sut/login.py change-password fred wrong NewP4ss
/tmp/robotframework-u3485702-quickstart-db.txt
Changing password failed: Access Denied
```

8. Changing password with valid credentials but with a password that does not conform to the password requirements resulted in an error as shown below in the snapshot.

```
/home/itse34857/u3485702/Lab3/QuickStartGuide-1.0$ python sut/login.py change-password fred P4ssw0rd short
/tmp/robotframework-u3485702-quickstart-db.txt
Changing password failed: Password must be 7-12 characters long
```

9. Changing password with valid credentials and with a valid new password resulted in *SUCCESS*. See snapshot below.

```
/home/itse34857/u3485702/Lab3/QuickStartGuide-1.0$ python sut/login.py change-password fred P4ssw0rd NewP4ss
/tmp/robotframework-u3485702-quickstart-db.txt
SUCCESS
```

Testing scope

In Scope

Only the scenarios presented in the previous section were within the scope of the testing effort.

Out of Scope

- Performance testing was out of the scope of this testing effort.
- Only a limited number of users (at most two) were created in the database.

Metrics

Test cases

| Test Cases Planned | Test Cases Executed | TCs Passed | TCs Failed |
|--------------------|---------------------|------------|------------|
| 9 | 9 | 9 | 0 |

Defects

None

Test Environment & Tools

Below is a table that includes a brief overview of the software and hardware setups used to execute the test cases described in this report.

| | |
|--------------------------------|--|
| Computer hardware | GenuineIntel x86_64 1800 MHz, 8GB RAM |
| Manual testing script language | Python |
| OS | Ubuntu 14.04.5 LTS (GNU/Linux 3.13.0-52-generic x86_64) |

Exit Criteria

- All planned test cases are to be passed.
- No critical defects found.

Conclusion/Sign off

All exit criteria were met and satisfied. This application can 'Go Live'.