The sample application for this guide is a variation on a classic login example: it is a command line

based authentication server written in Python. The application allows a user to do three

things:

1. **Create an account with a valid password.**
2. **Log in with a valid user name and password.**
3. **Change the password of an existing account**

**Create an account with a valid password.**

> python sut/login.py login nobody P4ssw0rd

Access Denied

**After creating a user account with valid password login succeeds:**

> python sut/login.py create fred P4ssw0rd

SUCCESS

> python sut/login.py login fred P4ssw0rd

Logged In

**There are two requirements that a password must fulfill to be valid:**

**it must be between 7-12 characters long, and it must contain lower and upper case letters and numbers, but it must not contain special characters.**

> python sut/login.py create fred short

Creating user failed: Password must be 7-12 characters long

> python sut/login.py create fred invalid

Creating user failed: Password must be a combination of lowercase and

uppercase letters and numbers

**Changing password with invalid credentials results in the same error message as logging in with**

**invalid credentials. The validity of new password is verified and if not valid**

> python sut/login.py change-password fred wrong NewP4ss

Changing password failed: Access Denied

> python sut/login.py change-password fred P4ssw0rd short

Changing password failed: Password must be 7-12 characters long

> python sut/login.py change-password fred P4ssw0rd NewP4ss

SUCCESS

**User cannot log in with bad password**

Create Valid User betty P4ssw0rd

Attempt to Login with Credentials betty wrong

Status Should Be Access Denied