UT TESTING REPORT

LOGIN_001 : Valid name

```
void testSunnyCases1(void)
{
    CU_ASSERT_EQUAL(validName("user1"), 1);
    CU_ASSERT_EQUAL(validName("user12"), 1);
}
```

LOGIN_002, LOGIN_003 : Invalid name

```
void testRainyCases1(void)
{
    CU_ASSERT_EQUAL(validName("u"), 0);
    CU_ASSERT_EQUAL(validName("Jonas Laxmi Licency Sukanya Vibhu"), 0);
}
```

LOGIN_004 : Valid password

```
void testSunnyCases2(void)
{
    CU_ASSERT_EQUAL(validPass("pass1"), 1);
    CU_ASSERT_EQUAL(validPass("Pass123"), 1);
}
```

LOGIN_005, LOGIN_006 : Invalid password

```
void testRainyCases2(void)
{
    CU_ASSERT_EQUAL(validPass("p"), 0);
    CU_ASSERT_EQUAL(validPass("pppppaaaaaasssssss112225544kkk1"), 0);
}
```

LOGIN_007 : Validate user

```
void testSunnyCases3(void)
{
    CU_ASSERT_EQUAL(testValid('n', "user44", "passdd"), 1);
    CU_ASSERT_EQUAL(testValid('o', "user55", "pass77"), 1);
}
```

```
void testRainyCases3(void)
{
    CU_ASSERT_EQUAL(testValid('p', "usertt", "passgg"), 0);
    CU_ASSERT_EQUAL(testValid('z', "useryy", "passyy"), 0);
}
```

LOGIN_008 : New user

```
void testSunnyCases4(void)
{
    CU_ASSERT_EQUAL(newUser('n', "user11", "pass33"), 1);
}
```

LOGIN_009 : Old user

```
void testRainyCases4(void)
{
    CU_ASSERT_EQUAL(newUser('o', "user22", "passs"), 0);
}
```

ADD_001 : Adding to queue

```
void testSunnyCases5(void)
{
    CU_ASSERT_EQUAL(queue_add("user11"), 1);
    CU_ASSERT_EQUAL(queue_add("user30"), 1);
}
```

REMOVE_001 : Removing users from the list

```
void testSunnyCases6(void)
{
    CU_ASSERT_EQUAL(queue_remove("user11"), 1);
    CU_ASSERT_EQUAL(queue_remove("user30"), 1);
}
```

FAIL_001 : Login Success/Failure

```
void testSunnyCases7(void)
{
    CU_ASSERT_EQUAL(loginSuccess("user12", "pass11"), 1);
    CU_ASSERT_EQUAL(loginSuccess("user3", "pass30"), 1);
}
```

FAIL_002 : Login Success/Failure

```
void testRainyCases7(void)
{
    CU_ASSERT_EQUAL(loginSuccess("user22", "pas11"), 0);
    CU_ASSERT_EQUAL(loginSuccess("userzzz", "pzzzz"), 0);
}
```

RESULT :

```
    CUnit - A unit testing framework for C - Version 2.1-3
    http://cunit.sourceforge.net/


Suite: Name valid or invalid
  Test: test of validName() in normal cases ...passed
  Test: test of invalidName() in error cases ...passed
Suite: Password valid or invalid
  Test: test of validPass() in normal cases ...passed
  Test: test of invalidPass() in error cases ...passed
Suite: User Validation
  Test: test of userValidation() in normal cases ...passed
  Test: test of userValidation() in error cases ...passed
Suite: New user
  Test: test of newUser() in normal cases ...passed
  Test: test of newUser() in error cases ...passed
Suite: Add to active user list
  Test: test of addActiveUser() in normal cases ...passed
Suite: Remove user from active user list
  Test: test of removeUser() in normal cases ...passed
Suite: Login failure
  Test: test of loginSuccessful() in normal cases ...passed
  Test: test of loginFailure() in error cases ...passed

Run Summary:    Type  Total    Ran Passed Failed Inactive
              suites     7      7   n/a       0        0
               tests    12     12    12       0        0
             asserts    22     22    22       0      n/a

Elapsed time =    0.000 seconds
```