

4. Homework – exercises – login

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Test cases

1. Test user that does not exist.
2. Test wrong passwords
3. 1. and 2. more than 3 times
4. Otherwise login?

Equivalence classes

- Input classes
 - User & pw OK
 - User does not exist
 - User exists, pw wrong
 - User NULL
 - PW NULL
 - SQL code
- Output classes (error codes)
 - 0 -> no error, login
 - 1 -> user not found, no login
 - 2 -> user found, pw wrong, no login
 - Crash
 - Exception

- 1. Test: user & pw OK
 - Fred 123456
 - Liz Richard
 - Markus password

During this test existing users and correct passwords are entered and a correct login and the error code 0 are expected.

- 2. Test: user does not exist
 - Fre any
 - Lz any
 - Makus any

During this test unexisting users are tested, the pw does not matter. The expected error code is 1, no login is expected, the app should close.

- 3. Test: user exists, pw wrong
 - Fred 12345
 - Liz Richrd
 - Markus passord

- 4. Test: user exists, pw of another user
 - Fred Richard
 - Liz password
 - Markus 123456

During these two tests existing users are tested, firstly with wrong passwords, secondly with existing passwords of another user. Both expect error code 2, no login, app closes.

- 5. Test: User NULL
 - Not defined, app could crash
- 6. Test: PW NULL
 - Not defined, app could crash
- 7. SQL code in PW-box
 - Exception should be thrown

There are no „Grenzfälle“ .?

Path tests

1. Input not OK (no name, no pw, unallowed characters in name,...) -> no login
2. Input OK and correct 1st time (checked with database) -> login -> main app
3. Input OK but not correct 1st time -> no login, Input OK and correct 2nd time -> login -> main App
4. Input OK but not correct 1st and 2nd time -> no login, Input OK and correct 3rd time -> login -> main App
5. Input OK but not correct 1st, 2nd and 3rd time -> no login, close app

Reflect

In principle a system test is better for equivalence classes, because it only includes in- and output (ignoring the error code in our solution above),

for path test a unit test is better, because one should know the structure of the programm (loops, ifs, ...).