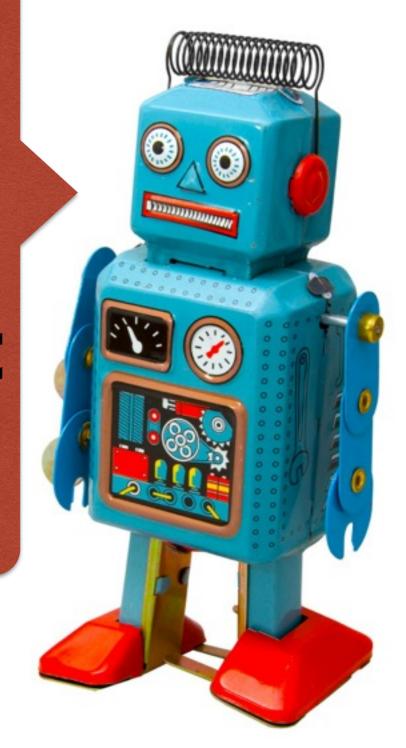
Acceptance Test and

Acceptance-Test Driven Development

with Robot Framework



Login Demo

https://github.com/rtomac/robotframework-selenium2library

Run server with python in folder demo app

\$python server.py start

Demo application starting on port 7272

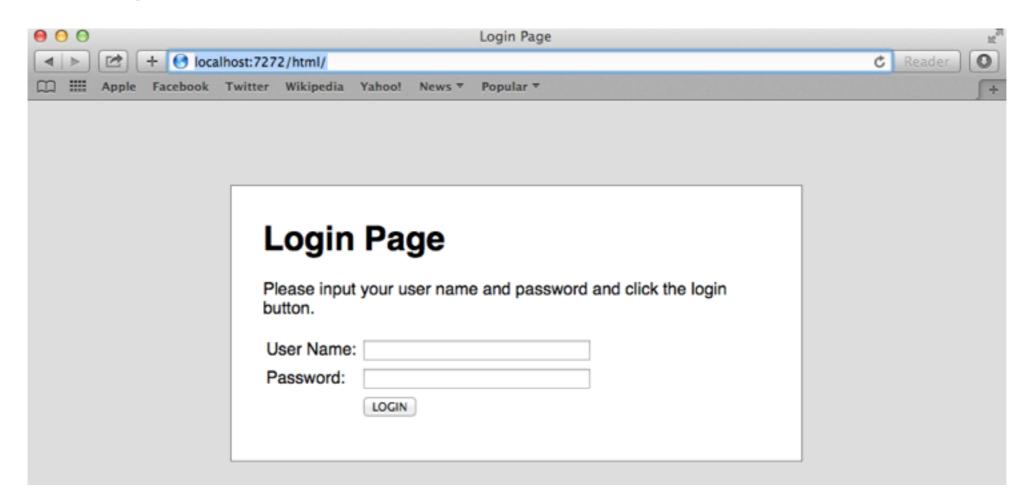


Demo

Go to http://localhost:7272/html

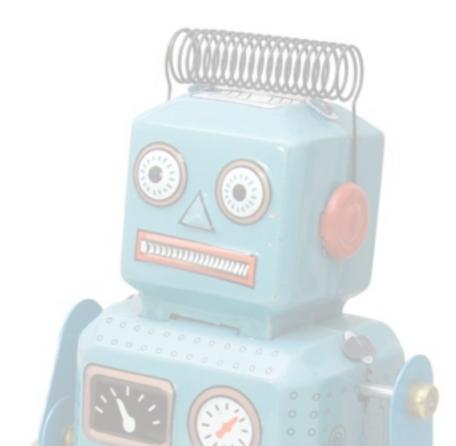
username = demo

password = mode



Workshop

- Create test case with Robot Framework
 - Valid test case



Example of Valid login

```
*** Settings ***
               Selenium2Library
   Library
 3
   *** Testcases ***
   Valid Login
6
       Open Browser
                       http://localhost:7272/html
8
       Input Text
                       username_field
                                        demo
 9
       Input Text
                       password_field
                                        mode
10
       Click Button
                       login_button
11
12
       Location Should Be
                             http://localhost:7272/html/welcome.html
       Title Should Be
13
                             Welcome Page
14
                             Login succeeded
       Page Should Contain
15
16
       Close Browser
```

Duplication

```
*** Settings ***
   Library
                Selenium2Library
 3
   *** Testcases ***
   Valid Login
       Open Browser
                       http://localhost:7272/html
6
8
                       username_field
                                         demo
       Input Text
9
       Input Text
                       password_field
                                         mode
10
       Click Button
                       login_button
11
                             http://localhost:7272/html/welcome.html
12
       Location Should Be
13
       Title Should Be
                             wellone rage
14
                             Login succeeded
       Page Should Contain
15
16
       Close Browser
```

Remove Duplication to Constants

```
*** Settings ***
   Library
               Selenium2Library
   *** Variables ***
   ${LOGIN_URL}
                     http://localhost:7272/html
   ${WELCOME_URL}
                     ${LOGIN_URL}/welcome.html
   *** Testcases ***
10
   Valid Login
                      ${LOGIN_URL}
       Open Browser
11
12
13
       Input Text
                      username_field
                                       demo
       Input Text
                      password_field
14
                                       mode
15
       Click Button
                       login_button
16
       Location Should Be
                            ${WELCOME_URL}
17
       Title Should Be
                            Welcome Page
18
       Page Should Contain
                            Login succeeded
19
20
       Close Browser
21
```

More Technical Detail

```
*** Settings ***
   Library
               Selenium2Library
   *** Variables ***
   ${LOGIN_URL}
                     http://localhost:7272/html
                     ${LOGIN_URL}/welcome.html
   ${WELCOME_URL}
 8
   *** Testcases ***
10
                       ${LOGIN_URL}
11
       Open Browser
12
13
       Input Text
                       username_field
                                        demo
                       password_field
       Input Text
                                        mode
14
       Click Button
15
                       login_button
16
17
       Location Should Be
                             ${WELCOME_URL}
       Title Should Be
                            Welcome Page
18
                            Login succeeded
19
       Page Should Contain
20
21
       Close Browser
```



Try to use high level language

```
*** Settings ***
   Library Selenium2Library
   *** Variables ***
   ${LOGIN_URL}
                     http://localhost:7272/html
    ${WELCOME_URL}
                     ${LOGIN_URL}/welcome.html
 8
                                   Keywords
   *** Testcases ***
10
       Open the login page
11
12
       Fill in username
                          demo
13
       Fill in password
                          mode
       Submit data to system
14
15
       Welcome page should be open
       Close Browser
16
17
```



Create keywords

```
*** Keywords ***
18
    Open the login page
19
                       ${LOGIN_URL}
        Open Browser
20
21
22
    Fill in username
23
        [Arguments]
                        ${username}
                                         ${username}
24
        Input Text
                        username_field
25
    Fill in password
26
                        ${password}
        [Arguments]
27
                        password_field
                                         ${password}
        Input Text
28
29
30
    Submit data to system
31
        Click Button
                       login_button
32
    Welcome page should be open
33
                              ${WELCOME_URL}
        Location Should Be
34
                              Welcome Page
35
        Title Should Be
        Page Should Contain Login succeeded
36
```



Split to Resource file

```
*** Settings ***
                Selenium2Library
    Library
   *** Variables ***
                      http://localhost:7272/html
   ${LOGIN_URL}
                      ${LOGIN_URL}/welcome.html
    ${WELCOME_URL}
    *** Keywords ***
    Open the login page
                       ${LOGIN_URL}
10
        Open Browser
11
12
    Fill in username
13
                       ${username}
        [Arguments]
14
        Input Text
                       username_field
                                        ${username}
15
16
    Fill in password
                       ${password}
        [Arguments]
17
        Input Text
                       password_field
                                        ${password}
18
19
    Submit data to system
20
21
        Click Button
                     login button
22
   Welcome page should be open
23
                             ${WELCOME_URL}
24
        Location Should Be
                             Welcome Page
25
        Title Should Be
        Page Should Contain Login succeeded
26
27
```



Test case look better !!!

```
1 *** Settings ***
2 Resource 09_resource.txt
3
4 *** Testcases ***
5 Valid Login
6     Open the login page
7     Fill in username demo
8     Fill in password mode
9     Submit data to system
10     Welcome page should be open
11     Close Browser
```



Workshop

- Create test case with Robot Framework
 - Invalid test case



Good Test Case

```
1 *** Settings ***
2 Suite Setup
                  Open the login page
3 Test Setup Go to login page
4 Test Template Login With Invalid Credentials Should Fail
   Suite Teardown Close Browser
6 Resource
               09_resource.txt
8 *** Test Cases ***
                                  User Name
                                                 Password
9 Invalid Username
                                  invalid
                                                mode
10 Invalid Password
                                  demo invalid
11 Invalid Username And Password invalid
                                                whatever
12 Empty Username
                                  ${EMPTY}
                                                XXX
                                  demo ${EMPTY}
13 Empty Password
                                                 ${EMPTY}
   Empty Username And Password
                                  ${EMPTY}
14
15
16
17
   *** Keywords ***
18
   Login With Invalid Credentials Should Fail
       [Arguments] ${username} ${password}
19
       Fill in username ${username}
20
       Fill in password ${password}
21
22
       Submit data to system
       Login Should Have Failed
23
```

Question?

