

# Robot Framework Workshop



Workshop by deTesters & TestCoders

Rein van der Vegt

Tim Lolkema

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Clone the GitHub repository:

- <https://github.com/tlolkema/robot-workshop>

Installation:

- Install python3 and put it in the path.
- Download chromedriver and put it in the path.  
<https://chromedriver.chromium.org/>
- `python -m venv env`
- activate virtual env:
  - `source env/bin/activate` (Mac / Linux)
  - `env\Scripts\activate` (Windows)
- `pip install -r requirements.txt`

Running the Workshop Application:

- Navigate to the 'app' directory
- `python app.py`
- The app will be running on <http://localhost:5000/>

Workshop Files:

- The workshop files are located in the 'test' directory
- Some of the keywords are already present and some need to be written

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## Exercise 1:

In tests.robot there is the following testcase:

Use the SeleniumLibrary to fill in the form

```
Given I Visit The Robot Framework Workshop Website
When I Input The First Name    Test
And I Input The Last Name      User
And I Click The Submit Button
Then The Output Element Should Contain    Test User
```

The following keyword definitions are missing:

```
And I Input The Last Name      User
And I Click The Submit Button.
```

- Write these missing keyword definitions in the resource file `resources.resource`
- Run the test to make sure the test passes

SeleniumLibrary keyword documentation:

<https://robotframework.org/SeleniumLibrary/SeleniumLibrary.html>

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## Exercise 2:

You can use Setup & Teardown to execute keywords before/after every testcase or testsuite.

In the settings section of tests.robot use Setup & Teardown to:

- Run the STARTUP keyword before every test
- Run the TEARDOWN keyword after the suite

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## Exercise 3:

- In tests.robot uncomment the following testcase:

Use The WorkshopLibrary to make a POST to /robotframework

```
I Make A POST Request To /robotframework with the WorkshopLibrary    Test    User
The Response Should Contain    Test User
```

- Write the keyword definition for

I Make A POST Request To /robotframework with the WorkshopLibrary

- This keyword takes 2 arguments
- The keyword should use the python method defined in WorkshopLibrary.py to perform a POST call with these arguments
- The response should be saved in a Test Variable called \${response}
- Run the test to make sure the test passes

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## BONUS Exercise 1:

- Use Pabot to test the testcases in parallel  
<https://github.com/mkorpela/pabot>

## BONUS Exercise 2:

- Make a data driven test using a test template  
<https://github.com/robotframework/HowToWriteGoodTestCases/blob/master/HowToWriteGoodTestCases.rst#data-driven-tests>

# Robot Framework Hints



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## Exercise 1:

- For the keyword 'I Input The Last Name' you can look at the example from 'I Input The First Name' in the resource file
- You can use the SeleniumLibrary keyword 'Click Element' to click on an element

## Exercise 2:

- Use 'Test Setup' with the keyword as an argument in the 'Settings' section to execute the keyword before every test
- Use 'Suite Teardown' with the keyword as an argument in the 'Settings' section to execute the keyword after the suite

## Exercise 3:

- You can accept arguments in a keyword like this:  
`[Arguments]    ${argument1}    ${argument1}`
- The method defined in WorkshopLibrary.py is:  
`submit_name(self, first_name, last_name)`
- You can use this method like this in Robot Framework:  
`Submit Name        ${first_name}    ${last_name}`
- You can save the return value of a keyword in a variable like this:  
`${response} =    Keyword`
- You can use 'Set Test Variable' to set test variable for use in a different keyword:  
`Set Test Variable    ${variable}`