**ROBOT FRAMEWORK**

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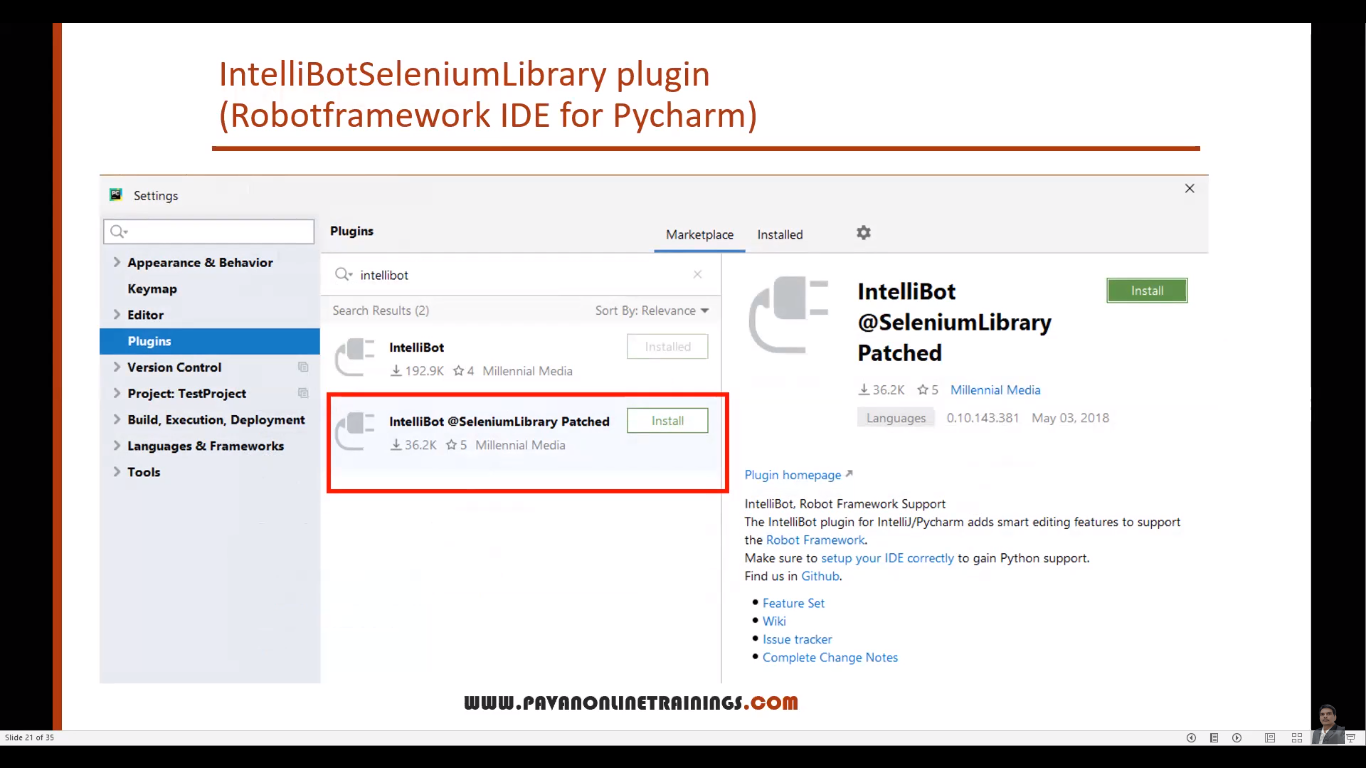
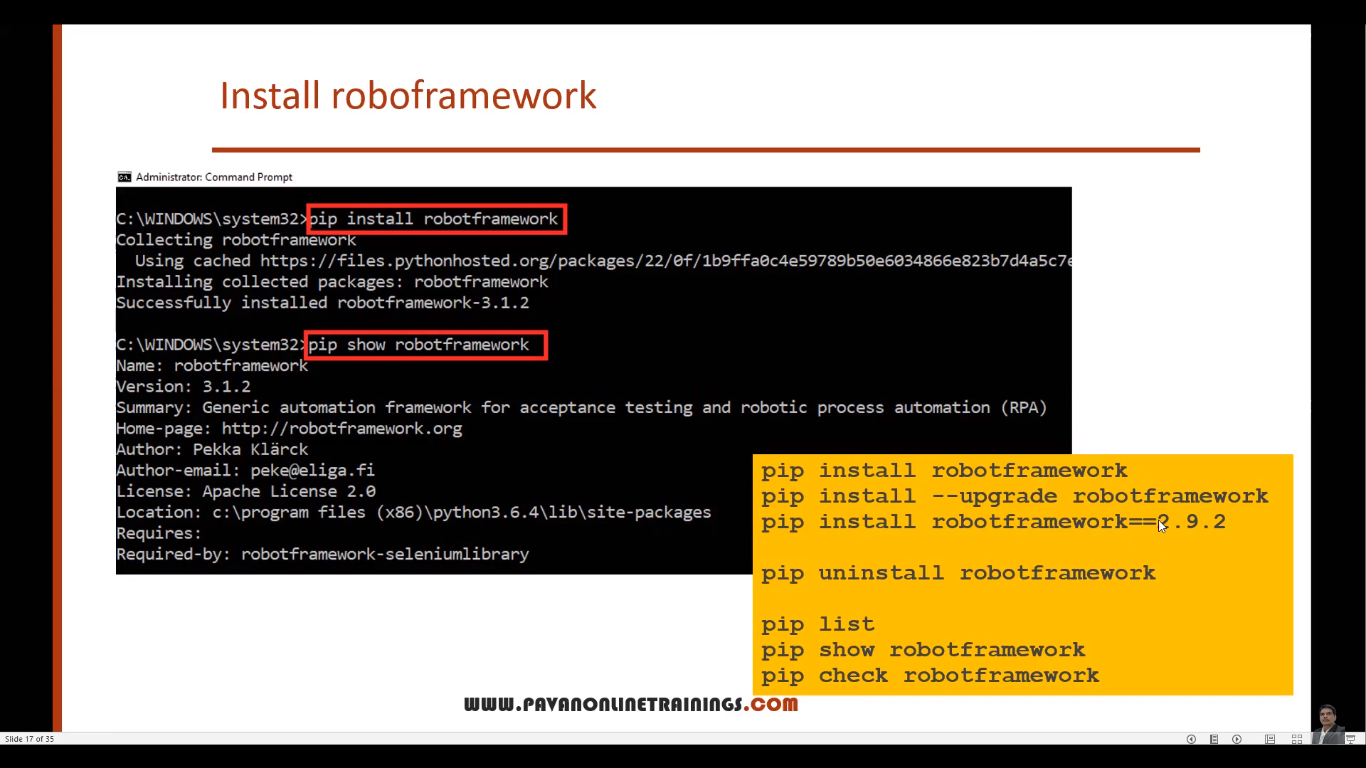
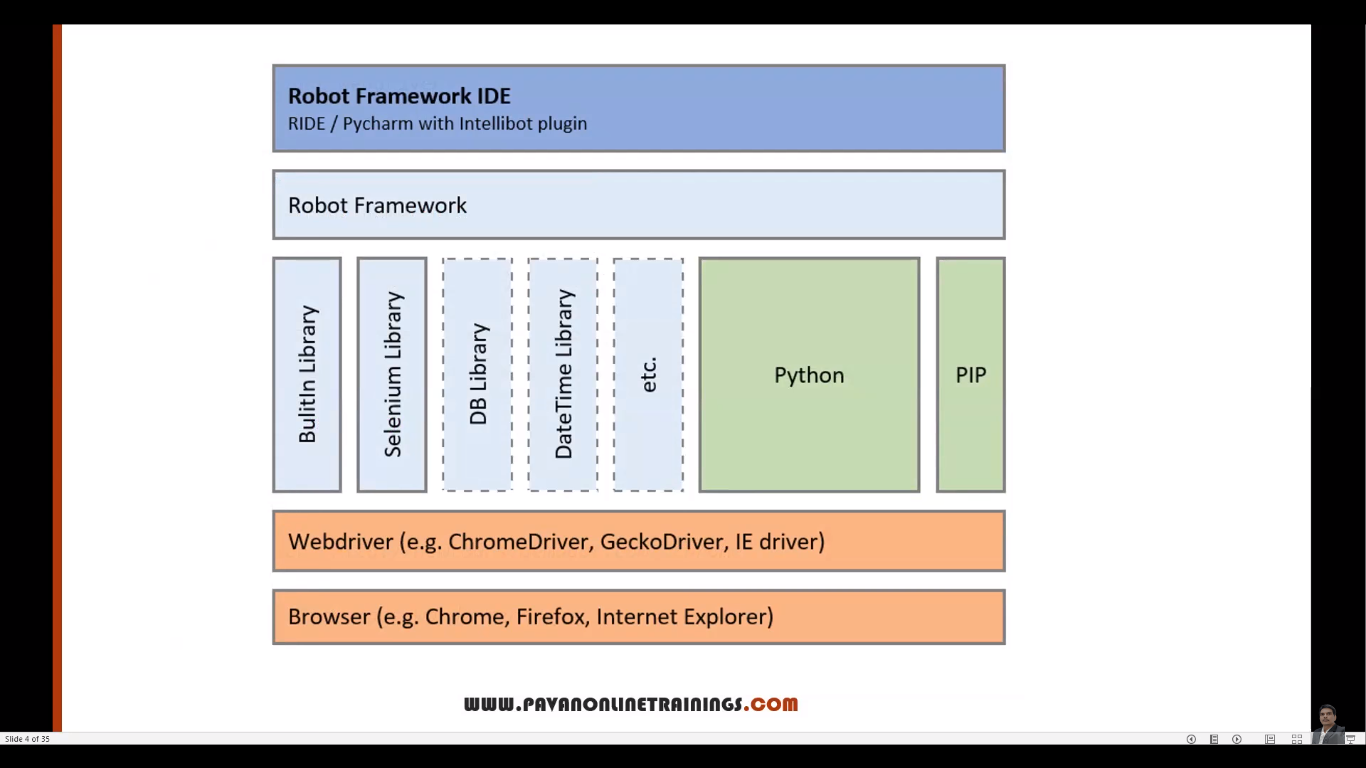
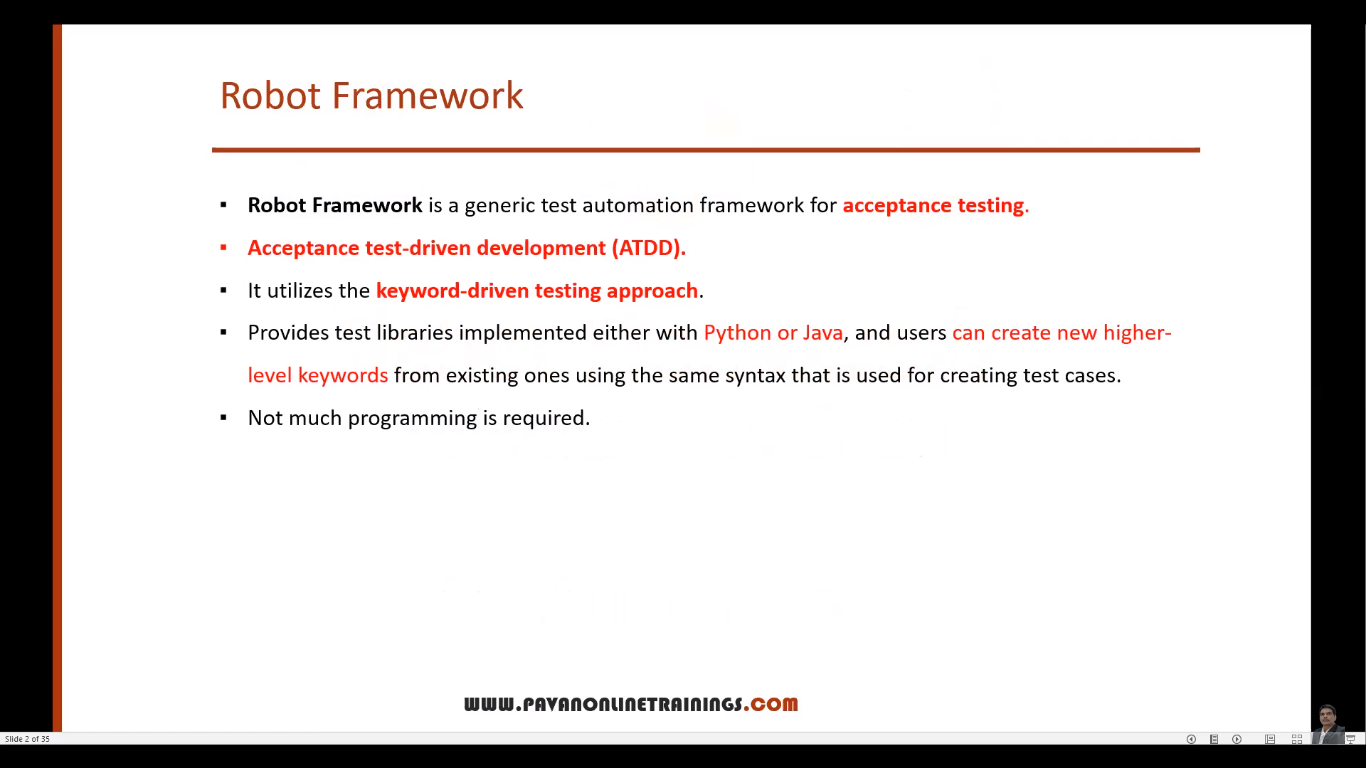
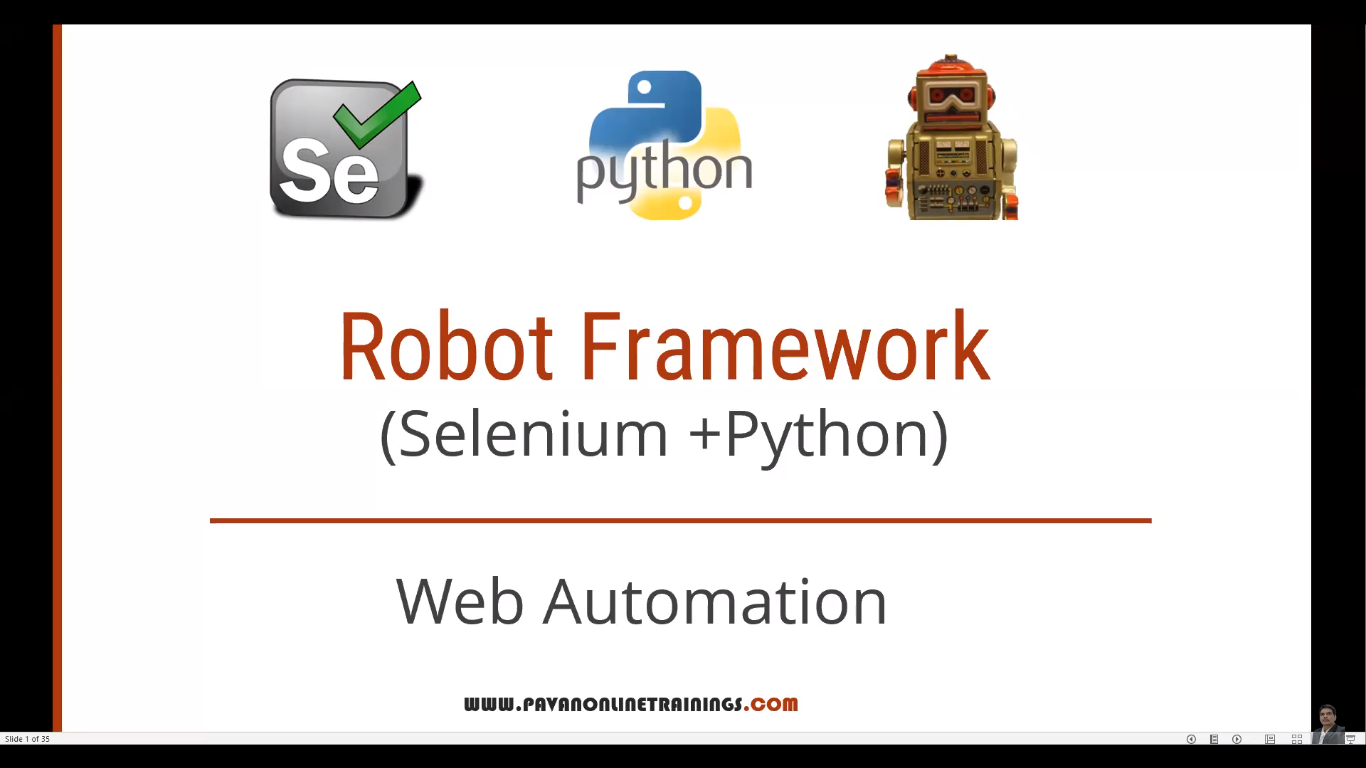
# Headless Browser Testing in Robot Framework

# How to use IF ELSE in Robot Framework

# List Variable in Robot Framework

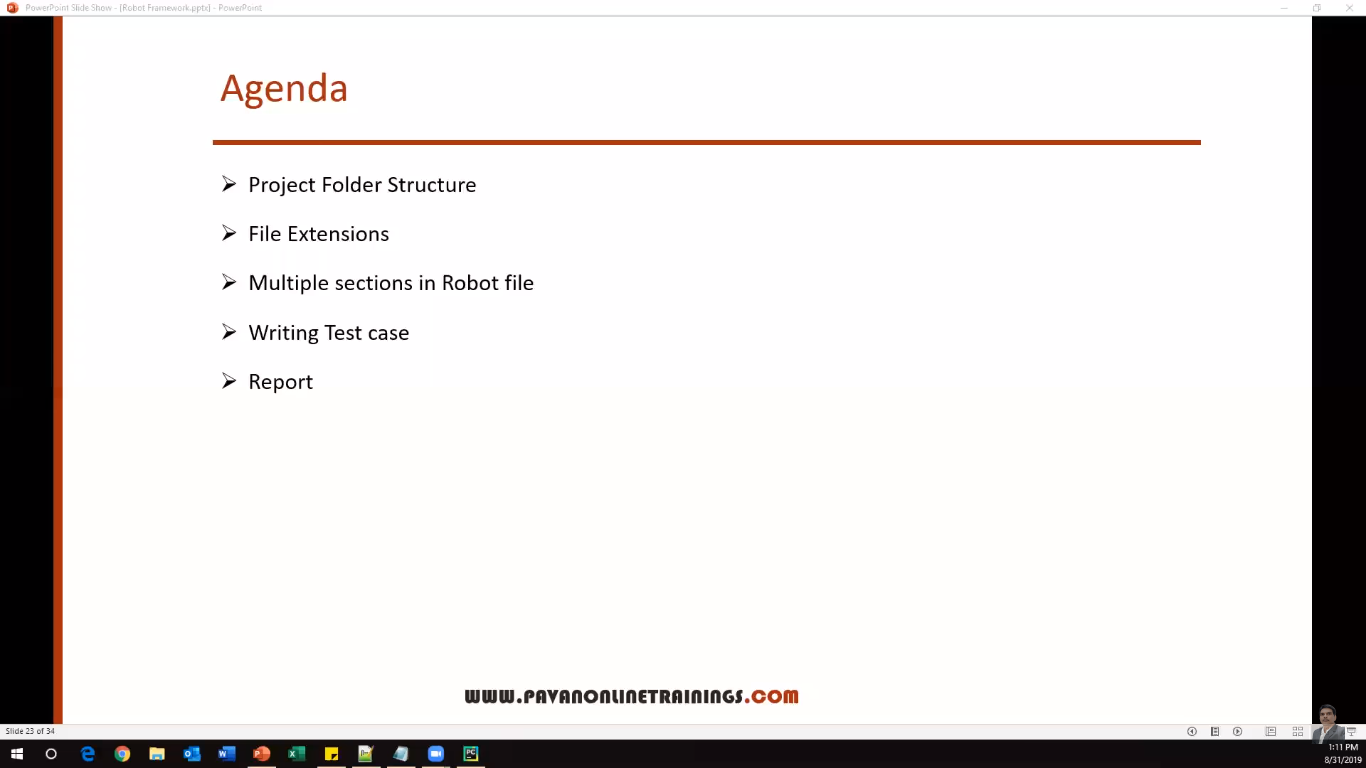
# Dictionary Variable in Robot Framework

1. **Introduction to Robot Framework**



# First Test Case in Robot Framework

# Testing on a website : <https://demo.automationtesting.in/Register.html>



1.Without variables and user defined keywords

**\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
\*\*\* Test Cases \*\*\*  
LoginTest  
 open browser *https://demo.automationtesting.in/Register.html  
chrome*  
 click link *xpath://a[@href="Index.html"]* sleep *2s* input text *id:email lochu5vilehya@gmail.com* sleep *2s* click element *id:enterimg* sleep *2s***

**close browser  
  
  
  
\*\*\* Keywords \*\*\***

2.Without user defined keywords

**\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://demo.automationtesting.in/Register.html*\*\*\* Test Cases \*\*\*  
LoginTest  
 open browser ${url} ${browser}  
 click link *xpath://a[@href="Index.html"]* sleep *2s* input text *id:email lochu5vilehya@gmail.com* sleep *2s* click element *id:enterimg* sleep *2s*  
 close browser  
  
  
  
\*\*\* Keywords \*\*\***

1.With variables and user defined keywords

**\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://demo.automationtesting.in/Register.html*\*\*\* Test Cases \*\*\*  
LoginTest  
 open browser ${url} ${browser}  
 LoginToApp  
 close browser  
  
  
  
\*\*\* Keywords \*\*\*  
LoginToApp  
 click link *xpath://a[@href="Index.html"]* sleep *2s* input text *id:email lochu5vilehya@gmail.com* sleep *2s* click element *id:enterimg* sleep *2s***

**OUTPUT:**

(.venv) PS C:\Users\vlab\Desktop\Robot\_framework> robot TestCases\TC1.robot

==============================================================================

TC1

==============================================================================

LoginTest

DevTools listening on ws://127.0.0.1:50333/devtools/browser/5764665d-053f-4743-91c5-568b14d266b4

LoginTest | PASS |

------------------------------------------------------------------------------

TC1 | PASS |

1 test, 1 passed, 0 failed

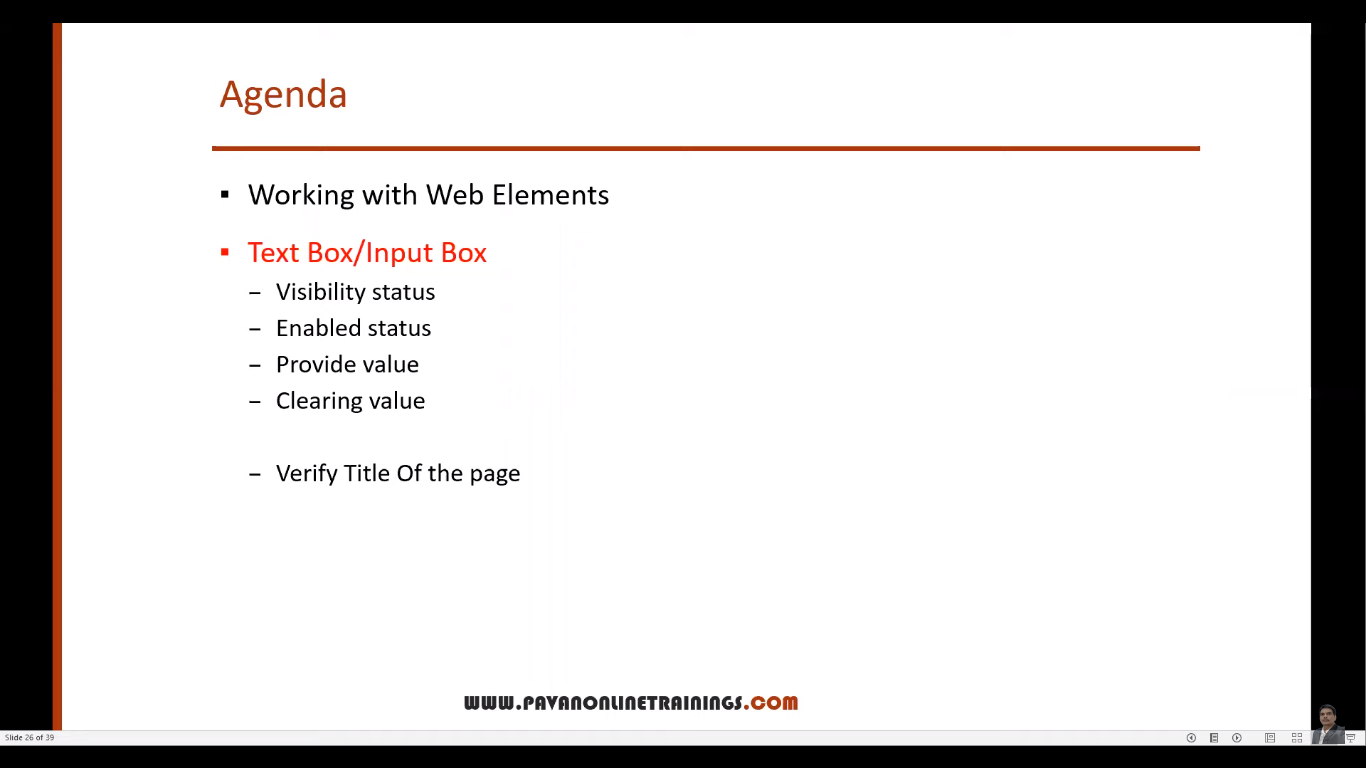
==============================================================================

Output: C:\Users\vlab\Desktop\Robot\_framework\[output.xml](http://localhost:63342/Robot_framework/output.xml)

Log: C:\Users\vlab\Desktop\Robot\_framework\[log.html](http://localhost:63342/Robot_framework/log.html)

Report: C:\Users\vlab\Desktop\Robot\_framework\[report.html](http://localhost:63342/Robot_framework/report.html)

# How To Handle Input Box in Robot Framework



**\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://demo.automationtesting.in/Register.html*\*\*\* Test Cases \*\*\*  
LoginTest  
 open browser ${url} ${browser}  
 maximize browser window  
 title should be *Register* LoginToApp  
 close browser  
  
  
  
\*\*\* Keywords \*\*\*  
LoginToApp  
 click link *xpath://a[@href="Index.html"]* sleep *2s* title should be *Index* ${"email\_txt"} set variable *id:email* element should be visible ${"email\_txt"}  
 element should be enabled ${"email\_txt"}  
  
 input text ${"email\_txt"} *lochu5vilehya@gmail.com* sleep *2* clear element text ${"email\_txt"}  
 sleep *3***

**OUTPUT:**

(.venv) PS C:\Users\vlab\Desktop\Robot\_framework> robot TestCases\InputBo

x.robot

=========================================================================

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InputBox

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LoginTest

DevTools listening on ws://127.0.0.1:59559/devtools/browser/0a61075d-1001

-4fb4-be01-f4c21171c1f0

LoginTest **| PASS |**

-------------------------------------------------------------------------

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InputBox **| PASS |**

1 test, 1 passed, 0 failed

=========================================================================

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Output: C:\Users\vlab\Desktop\Robot\_framework\output.xml

Log: C:\Users\vlab\Desktop\Robot\_framework\log.html

Report: C:\Users\vlab\Desktop\Robot\_framework\report.html

**\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://demo.automationtesting.in/Register.html*\*\*\* Test Cases \*\*\*  
LoginTest  
 open browser ${url} ${browser}  
 maximize browser window  
 title should be *Register* LoginToApp  
 close browser  
  
  
  
\*\*\* Keywords \*\*\*  
LoginToApp  
 click link *xpath://a[@href="Index.html"]* sleep *2s* title should be *Index* ${"email\_txt"} set variable *id:email* element should not be visible ${"email\_txt"}  
 element should be enabled ${"email\_txt"}  
  
 input text ${"email\_txt"} *lochu5vilehya@gmail.com* sleep *2* clear element text ${"email\_txt"}  
 sleep *3***

=========================================================================

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InputBox

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LoginTest

DevTools listening on ws://127.0.0.1:59832/devtools/browser/d7a9c5f9-86fb

-4dca-af12-ea300d883c47

LoginTest | FAIL |

The element 'id:email' should not be visible, but it is.

-------------------------------------------------------------------------

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InputBox | FAIL |

1 test, 0 passed, 1 failed

=========================================================================

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Output: C:\Users\vlab\Desktop\Robot\_framework\output.xml

Log: C:\Users\vlab\Desktop\Robot\_framework\log.html

Report: C:\Users\vlab\Desktop\Robot\_framework\report.html

# How To Select Radio Buttons & Check Boxes in Robot Framework

**\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://demo.automationtesting.in/Register.html*\*\*\* Test Cases \*\*\*  
Testing Radio Btns and Check Boxes  
 open browser ${url} ${browser}  
 maximize browser window  
 set selenium speed *0.5* title should be *Register* select radio button *radiooptions FeMale* select checkbox *id:checkbox3* select checkbox *id:checkbox1* unselect checkbox *id:checkbox3* close browser  
  
  
  
\*\*\* Keywords \*\*\***

(.venv) PS C:\Users\vlab\Desktop\Robot\_framework> robot TestCases\Radiobt

n\_Checkbox.robot

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Radiobtn Checkbox

=========================================================================

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Testing Radio Btns and Check Boxes

DevTools listening on ws://127.0.0.1:61621/devtools/browser/5d93a66d-5fce

-41de-86ff-b0ec7871a1b7

Testing Radio Btns and Check Boxes **| PASS |**

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Radiobtn Checkbox **| PASS |**

1 test, 1 passed, 0 failed

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Output: C:\Users\vlab\Desktop\Robot\_framework\output.xml

Log: C:\Users\vlab\Desktop\Robot\_framework\log.html

Report: C:\Users\vlab\Desktop\Robot\_framework\report.html

# How To Select Options from Drop-Down & List Boxes

* **DROPDOWN**

**\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://demo.automationtesting.in/Register.html*\*\*\* Test Cases \*\*\*  
Testing DropDown  
 open browser ${url} ${browser}  
 maximize browser window  
 title should be *Register* LoginToApp  
 close browser  
  
  
  
\*\*\* Keywords \*\*\*  
LoginToApp  
 select from list by label *Skills Adobe InDesign* sleep *2* select from list by index *Skills 15* sleep *3* select from list by value *Skills HTML* sleep *3***

(.venv) PS C:\Users\vlab\Desktop\Robot\_framework> robot

TestCases\DropDow

n.robot

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DropDown

=========================================================================

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Testing DropDown

DevTools listening on ws://127.0.0.1:63284/devtools/browser/af3c69fa-dab5

-4e43-abc3-1ea724bd79ae

Testing DropDown **| PASS |**

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DropDown **| PASS |**

=========================================================================

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Output: C:\Users\vlab\Desktop\Robot\_framework\output.xml

Log: C:\Users\vlab\Desktop\Robot\_framework\log.html

Report: C:\Users\vlab\Desktop\Robot\_framework\report.html

* **LIST BOX**

**\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://techcanvass.com/Examples/multi-select.html*\*\*\* Test Cases \*\*\*  
Testing ListBox  
 open browser ${url} ${browser}  
 maximize browser window  
 set selenium speed *0.5* LoginToApp  
 close browser  
  
  
  
\*\*\* Keywords \*\*\*  
LoginToApp  
 select from list by label *multiselect Audi* select from list by index *multiselect 1* select from list by value *multiselect honda* sleep *3* unselect from list by label *multiselect Audi* unselect from list by index *multiselect 4* click element *xpath://input[@type='submit']* sleep *2***

(.venv) PS C:\Users\vlab\Desktop\Robot\_framework> robot TestCases\Multise

lect\_ListBox.robot

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Multiselect ListBox

=========================================================================

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Testing ListBox

DevTools listening on ws://127.0.0.1:63952/devtools/browser/646840bc-1fa6

-427e-b0f6-f423b9374e11

Testing ListBox **| PASS |**

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Multiselect ListBox **| PASS |**

1 test, 1 passed, 0 failed

=========================================================================

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Output: C:\Users\vlab\Desktop\Robot\_framework\output.xml

Log: C:\Users\vlab\Desktop\Robot\_framework\log.html

Report: C:\Users\vlab\Desktop\Robot\_framework\report.html

# Waits & TimeOuts in Robot Framework

# Selenium Speed

**\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://demo.automationtesting.in/Register.html*\*\*\* Test Cases \*\*\*  
Testing Speed  
 ${speed} = get selenium speed  
 log to console ${speed}  
  
 open browser ${url} ${browser}  
 maximize browser window  
 title should be *Register* set selenium speed *0.5* LoginProcess  
 close browser  
  
  
  
\*\*\* Keywords \*\*\*  
LoginProcess  
 input text *xpath://input[@placeholder='First Name'] Lochani* input text *xpath://input[@placeholder='Last Name'] Vilehya* input text *xpath://input[@type='email'] lochu5vilehya@gmail.com* input text *xpath://input[@type='tel'] 8341130962* select radio button *radiooptions FeMale* select checkbox *id:checkbox3* select checkbox *id:checkbox1* unselect checkbox *id:checkbox3* select from list by label *Skills Adobe InDesign* select from list by index *Skills 15* select from list by value *Skills HTML* ${speed} = get selenium speed  
 log to console ${speed}**

(.venv) PS C:\Users\vlab\Desktop\Robot\_framework> robot TestCases\SpeedTest.robot

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SpeedTest

=========================================================================

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Testing Speed **.0 seconds**

.

DevTools listening on ws://127.0.0.1:49412/devtools/browser/dee966ae-11fa

-4a7b-9064-ee61108c468d

....**500 milliseconds**

Testing Speed **| PASS |**

-------------------------------------------------------------------------

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SpeedTest **| PASS |**

1 test, 1 passed, 0 failed

=========================================================================

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Output: C:\Users\vlab\Desktop\Robot\_framework\output.xml

Log: C:\Users\vlab\Desktop\Robot\_framework\log.html

Report: C:\Users\vlab\Desktop\Robot\_framework\report.html

# Selenium Timeout

* \*\*\* Settings \*\*\*  
  Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
  ${browser} *chrome*${url} *https://demo.automationtesting.in/Register.html*\*\*\* Test Cases \*\*\*  
  Testing Speed  
   open browser ${url} ${browser}  
   maximize browser window  
    
   ${time} = get selenium timeout  
   log to console ${time}  
    
    
   set selenium timeout *2 seconds* wait until page contains *Registration* LoginProcess  
   close browser  
    
    
    
  \*\*\* Keywords \*\*\*  
  LoginProcess  
   input text *xpath://input[@placeholder='First Name'] Lochani* input text *xpath://input[@placeholder='Last Name'] Vilehya* input text *xpath://input[@type='email'] lochu5vilehya@gmail.com* input text *xpath://input[@type='tel'] 8341130962* select radio button *radiooptions FeMale* select checkbox *id:checkbox3* select checkbox *id:checkbox1* unselect checkbox *id:checkbox3* select from list by label *Skills Adobe InDesign* select from list by index *Skills 15* select from list by value *Skills HTML*

(.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\TimeOut.robot

==============================================================================

TimeOut

==============================================================================

Testing Speed

DevTools listening on ws://127.0.0.1:50618/devtools/browser/8addfbf9-4955-4746-b031-7130316ebe57

**...5 seconds**

Testing Speed | FAIL |

**Text 'Registration' did not appear in 2 seconds.**

------------------------------------------------------------------------------

TimeOut | FAIL |

1 test, 0 passed, 1 failed

==============================================================================

Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

Log: C:\Users\vlab\PycharmProjects\Robot\log.html

Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# Selenium Implicit wait

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://demo.automationtesting.in/Register.html*\*\*\* Test Cases \*\*\*  
Testing Speed  
 open browser ${url} ${browser}  
 maximize browser window  
  
 ${time} = get selenium implicit wait  
 log to console ${time}  
  
  
 set selenium implicit wait *2 seconds* ${time} = get selenium implicit wait  
 log to console ${time}  
 LoginProcess  
 close browser  
  
  
  
\*\*\* Keywords \*\*\*  
LoginProcess  
 input text *xpath://input[@placeholder='First Name1'] Lochani* input text *xpath://input[@placeholder='Last Name'] Vilehya* input text *xpath://input[@type='email'] lochu5vilehya@gmail.com* input text *xpath://input[@type='tel'] 8341130962* select radio button *radiooptions FeMale* select checkbox *id:checkbox3* select checkbox *id:checkbox1* unselect checkbox *id:checkbox3* select from list by label *Skills Adobe InDesign* select from list by index *Skills 15* select from list by value *Skills HTML*

# (.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\ImpicitWait.robot

# ==============================================================================

# ImpicitWait

# ==============================================================================

# Testing Speed

# DevTools listening on ws://127.0.0.1:50670/devtools/browser/b91817f0-b6b3-4531-affa-093634f9cc7a

# ...0 seconds

# ...2 seconds

# Testing Speed | FAIL |

# Element with locator 'xpath://input[@placeholder='First Name1']' not found.

# ------------------------------------------------------------------------------

# ImpicitWait | FAIL |

# 1 test, 0 passed, 1 failed

# ==============================================================================

# Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

# Log: C:\Users\vlab\PycharmProjects\Robot\log.html

# Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# How to Close Single & Multiple Browsers in Robot Framework

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://demo.automationtesting.in/Register.html*${url1} *https://techcanvass.com/Examples/multi-select.html*\*\*\* Test Cases \*\*\*  
Testing Speed  
 open browser ${url} ${browser}  
 maximize browser window  
  
 open browser ${url1} ${browser}  
 maximize browser window  
  
 close all browsers

# (.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\CloseAll.robot

# ==============================================================================

# CloseAll

# ==============================================================================

# Testing Speed

# DevTools listening on ws://127.0.0.1:50716/devtools/browser/d95dc4c6-3c97-43c9-ab6f-3619712ef73c

# ..

# DevTools listening on ws://127.0.0.1:50745/devtools/browser/d7a44242-22f6-44a5-a056-10694d1ec355

# Testing Speed | PASS |

# ------------------------------------------------------------------------------

# CloseAll | PASS |

# 1 test, 1 passed, 0 failed

# ==============================================================================

# Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

# Log: C:\Users\vlab\PycharmProjects\Robot\log.html

# Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# How to Handle Alerts & Frames Robot Framework

# Alerts:

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://demo.automationtesting.in/Alerts.html*\*\*\* Test Cases \*\*\*  
Handling Alerts  
 open browser ${url} ${browser}  
 maximize browser window  
 set selenium speed *1* click element *xpath://a[@href='#CancelTab']* click element *xpath://button[@class='btn btn-primary']* #handle alert accept  
 #handle alert dismiss  
 handle alert *leave* alert should be present *Press a Button !*\*\*\* Keywords \*\*\*

# (.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\Alerts.robot

# ==============================================================================

# Alerts

# ==============================================================================

# [ WARN ] Error sending stats to Plausible: error sending request for url (https://plausible.io/api/event): operation timed out

# Handling Alerts

# DevTools listening on ws://127.0.0.1:51817/devtools/browser/1faa95ae-e9f6-4045-b84e-f974492cd2e0

# ------------------------------------------------------------------------------

# Alerts | PASS |

# 1 test, 1 passed, 0 failed

# ==============================================================================

# Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

# Log: C:\Users\vlab\PycharmProjects\Robot\log.html

# Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# Frames:

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://www.w3schools.com/js/tryit.asp?filename=tryjs\_array*\*\*\* Test Cases \*\*\*  
Switch to Frame Test  
 Open Browser ${url} *Chrome* maximize browser window  
 set selenium speed *0.5* select frame *iframeResult* current frame should contain *JavaScript Arrays* current frame should not contain *hello* unselect frame  
  
 frame should contain *iframeResult JavaScript Arrays* Close Browser  
  
  
  
  
\*\*\* Keywords \*\*\*

# (.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\Frames.robot

# ==============================================================================

# Frames

# ==============================================================================

# Switch to Frame Test

# DevTools listening on ws://127.0.0.1:57166/devtools/browser/96f018d6-b658-4caa-831b-2dff1b9dac88

# [25108:9908:0401/114100.543:ERROR:ssl\_client\_socket\_impl.cc(970)] handshake failed; returned -1, SSL error code 1, net\_error -101

# [25108:9908:0401/114100.611:ERROR:ssl\_client\_socket\_impl.cc(970)] handshake failed; returned -1, SSL error code 1, net\_error -101

# Switch to Frame Test | PASS |

# ------------------------------------------------------------------------------

# Frames | PASS |

# 1 test, 1 passed, 0 failed

# ==============================================================================

# Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

# Log: C:\Users\vlab\PycharmProjects\Robot\log.html

# Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# How to Handle Tabbed Windows & Browser Windows

# TABBED WINDOWS:

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://demo.automationtesting.in/Windows.html*\*\*\* Test Cases \*\*\*  
Tabbed Windows  
 open browser ${url} ${browser}  
 maximize browser window  
 set selenium speed *0.5* click element *xpath://\*[@id="Tabbed"]/a/button* Switch Window *title=Selenium* click element *xpath://a[@href='/downloads']* sleep *2* close all browsers  
  
\*\*\* Keywords \*\*\*

# (.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\TabbedWindows.robot

# ==============================================================================

# TabbedWindows

# ==============================================================================

# Tabbed Windows

# DevTools listening on ws://127.0.0.1:58272/devtools/browser/9d77c94c-2453-44d1-9d74-58eea8d2ddb2

# Tabbed Windows | PASS |

# ------------------------------------------------------------------------------

# TabbedWindows | PASS |

# 1 test, 1 passed, 0 failed

# ==============================================================================

# Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

# Log: C:\Users\vlab\PycharmProjects\Robot\log.html

# Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# SWITCH BETWEEN BROWSER WINDOWS:

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://demo.automationtesting.in/Windows.html*${url1} *https://www.selenium.dev/*\*\*\* Test Cases \*\*\*  
Tabbed Windows  
 set selenium speed *0.5* open browser ${url} ${browser}  
 maximize browser window  
  
 open browser ${url1} ${browser}  
 maximize browser window  
  
 switch browser *1* ${log1} get title  
 log to console ${log1}  
  
 switch browser *2* ${log2} get title  
 log to console ${log2}  
  
  
 close all browsers

# (.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\SwitchToMultiplebrowsers.robot

# ==============================================================================

# SwitchToMultiplebrowsers

# ==============================================================================

# Tabbed Windows .

# DevTools listening on ws://127.0.0.1:58508/devtools/browser/9bd098be-4d08-4b64-aa7f-ce08ee5719ff

# ..

# DevTools listening on ws://127.0.0.1:58538/devtools/browser/6d5da720-677b-47ed-8262-42dead6882a7

# ....Frames & windows

# Tabbed Windows ..Selenium

# Tabbed Windows | PASS |

# ------------------------------------------------------------------------------

# SwitchToMultiplebrowsers | PASS |

# 1 test, 1 passed, 0 failed

# ==============================================================================

# Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

# Log: C:\Users\vlab\PycharmProjects\Robot\log.html

# Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# Browser related Keywords

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://demo.automationtesting.in/Windows.html*${url1} *https://www.selenium.dev/*\*\*\* Test Cases \*\*\*  
Navigation through windows  
 set selenium speed *0.5* open browser ${url} ${browser}  
 maximize browser window  
 ${loc} get location  
 log to console ${loc}  
  
 go to ${url1}  
 ${loc} get location  
 log to console ${loc}  
  
 go back  
 ${loc} get location  
 log to console ${loc}  
  
  
 close browser  
  
\*\*\* Keywords \*\*\*

# (.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\NavigationalKeywords.robot

# ==============================================================================

# NavigationalKeywords

# ==============================================================================

# Navigation through windows .

# DevTools listening on ws://127.0.0.1:61919/devtools/browser/1f1331b0-ff63-4690-9248-21a65431ffac

# ...https://demo.automationtesting.in/Windows.html

# ...https://www.selenium.dev/

# Navigation through windows ..https://demo.automationtesting.in/Windows.html

# Navigation through windows | PASS |

# ------------------------------------------------------------------------------

# NavigationalKeywords | PASS |

# 1 test, 1 passed, 0 failed

# ==============================================================================

# Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

# Log: C:\Users\vlab\PycharmProjects\Robot\log.html

# Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# How to Capture Element & Full Page Screenshot

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://opensource-demo.orangehrmlive.com/web/index.php/auth/login*\*\*\* Test Cases \*\*\*  
Capture Screenshot  
 set selenium speed *0.5* open browser ${url} ${browser}  
 maximize browser window  
 input text *username Admin* input text *password admin123* #capture element screenshot //\*[@id="app"]/div[1]/div/div[1]/div/div[1]/img C:/Users/vlab/PycharmProjects/Robot/logo.png  
 #capture page screenshot C:/Users/vlab/PycharmProjects/Robot/OrangePage.png  
 capture element screenshot *//\*[@id="app"]/div[1]/div/div[1]/div/div[1]/img logo1.png* capture page screenshot *login.png* close browser

# (.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\CaptureSS.robot

# ==============================================================================

# CaptureSS

# ==============================================================================

# Capture Screenshot .

# DevTools listening on ws://127.0.0.1:62556/devtools/browser/a229c428-ba86-493b-bc48-d0ec98a3ae26

# Capture Screenshot | PASS |

# ------------------------------------------------------------------------------

# CaptureSS | PASS |

# 1 test, 1 passed, 0 failed

# ==============================================================================

# Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

# Log: C:\Users\vlab\PycharmProjects\Robot\log.html

# Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# How to perform Mouse Operations in Robot Framework

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://swisnl.github.io/jQuery-contextMenu/3.x/demo.html*${url1} *https://testautomationpractice.blogspot.com/*${url2} *http://www.dhtmlgoodies.com/scripts/drag-drop-custom/demo-drag-drop-3.html#google\_vignette*\*\*\* Test Cases \*\*\*  
Mouse Actions  
 set selenium speed *0.5* open browser ${url} ${browser}  
 maximize browser window  
 open context menu *xpath:/html/body/div/section/div/div/div/p/span* go to ${url1}  
 double click element *//\*[@id="HTML10"]/div[1]/button* go to ${url2}  
 drag and drop *id:box6 id:box106* sleep *2* close browser

# (.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\MouseActions.robot

# ==============================================================================

# MouseActions

# ==============================================================================

# Mouse Actions .

# DevTools listening on ws://127.0.0.1:63248/devtools/browser/7bde3041-4ee1-40ec-972a-fa8e8b17b698

# .....[10224:25360:0401/141404.984:ERROR:cert\_verify\_proc\_builtin.cc(878)] CertVerifyProcBuiltin for www.dhtmlgoodies.com failed:

# ----- Certificate i=0 (CN=wordpresschess.com) -----

# ERROR: Time is after notAfter

# [8104:17136:0401/141404.987:ERROR:ssl\_client\_socket\_impl.cc(970)] handshake failed; returned -1, SSL error code 1, net\_error -200

# Mouse Actions | PASS |

# ------------------------------------------------------------------------------

# MouseActions | PASS |

# 1 test, 1 passed, 0 failed

# ==============================================================================

# Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

# Log: C:\Users\vlab\PycharmProjects\Robot\log.html

# Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# User Defined Keywords & Resource Files in Robot Framework

# Without Arguments

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://demo.guru99.com/test/newtours/*\*\*\* Test Cases \*\*\*  
TC1  
 LoginBrowser  
 input text *userName lochu5viehya@gmail.com* input text *password Lovely@3455* close browser  
  
  
  
\*\*\* Keywords \*\*\*  
LoginBrowser  
 set selenium speed *0.5* open browser ${url} ${browser}  
 maximize browser window

# With Arguments

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://demo.guru99.com/test/newtours/*\*\*\* Test Cases \*\*\*  
TC1  
 LoginBrowser ${url} ${browser}  
 input text *userName lochu5viehya@gmail.com* input text *password Lovely@3455* close browser  
  
  
  
\*\*\* Keywords \*\*\*  
LoginBrowser  
 [Arguments] ${appurl} ${appbrowser}  
 set selenium speed *0.5* open browser ${appurl} ${appbrowser}  
 maximize browser window

# With Arguments and return value

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://demo.guru99.com/test/newtours/*\*\*\* Test Cases \*\*\*  
TC1  
 ${pageTitle}= LoginBrowser ${url} ${browser}  
 log to console ${pageTitle}  
 log ${pageTitle}  
 input text *userName lochu5viehya@gmail.com* input text *password Lovely@3455* close browser  
  
  
  
\*\*\* Keywords \*\*\*  
LoginBrowser  
 [Arguments] ${appurl} ${appbrowser}  
 set selenium speed *0.5* open browser ${appurl} ${appbrowser}  
 maximize browser window  
 ${title}= get title  
 [Return] ${title}

# Resource files:

# If there are the common keywords used for all test files then keep them in a separate file in separate directory and import in the settings tab of the code

**LOC:** ../Resources/resources.robot

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Keywords \*\*\*  
LoginBrowser  
 [Arguments] ${appurl} ${appbrowser}  
 set selenium speed *0.5* open browser ${appurl} ${appbrowser}  
 maximize browser window  
 ${title}= get title  
 [Return] ${title}

# LOC: ../TestCases/UserDefinedKeywords.robot

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*Resource *../Resources/resources.robot*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://demo.guru99.com/test/newtours/*\*\*\* Test Cases \*\*\*  
TC1  
 ${pageTitle}= LoginBrowser ${url} ${browser}  
  
 log to console ${pageTitle}  
 log ${pageTitle}  
 input text *userName lochu5viehya@gmail.com* input text *password Lovely@3455* close browser

# Scrolling Page using JavaScript executor in Robot Framework

# Scrolling page till it reach a pixel number

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://www.worldometers.info/geography/how-many-countries-are-there-in-the-world/*\*\*\* Test Cases \*\*\*  
Mouse Actions  
 set selenium speed *0.5* open browser ${url} ${browser}  
 maximize browser window  
 execute javascript *window.scrollTo(0,2500)* sleep *2* close browser

# Scrolling page till we find the a element

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://en.wikipedia.org/wiki/List\_of\_countries\_and\_dependencies\_by\_area*\*\*\* Test Cases \*\*\*  
Mouse Actions  
 set selenium speed *0.5* open browser ${url} ${browser}  
 maximize browser window  
  
 scroll element into view *xpath://\*[@id="mw-content-text"]/div[1]/table[2]/tbody/tr[101]/td[2]/span/span/span/img* sleep *2* close browser

**Scrolling page till the bottom of the page**

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://en.wikipedia.org/wiki/List\_of\_countries\_and\_dependencies\_by\_area*\*\*\* Test Cases \*\*\*  
Mouse Actions  
 set selenium speed *0.5* open browser ${url} ${browser}  
 maximize browser window  
execute javascript *window.scrollTo(0,document.body.scrollHeight)* #end of the page  
sleep *2*execute javascript *window.scrollTo(0,-document.body.scrollHeight)* #top of the page  
sleep *2*close browser

# How to work with FOR loop in Robot Framework

\*\*\* Test Cases \*\*\*  
Forloop1  
 FOR ${i} IN RANGE *1 10* log to console ${i}  
 END

**OUTPUT:**

Forloop1 1

2

3

4

5

6

7

8

9

\*\*\* Test Cases \*\*\*  
Forloop2  
 FOR ${i} IN *1 2 3 4 5 6 7 8* log to console ${i}  
 END

**OUTPUT:**

Forloop2 1 2 3 4 5 6 7 8

\*\*\* Test Cases \*\*\*

Forloop2  
 FOR ${i} IN *1 2 3 4 5 6 7 8* log to console ${i}  
 END

**OUTPUT:**

Forloop2 1

2

3

4

5

6

7

8

Forloop3wihList  
 @{items} create list *1 2 3 4 5* FOR ${i} IN @{items}  
 log to console ${i}  
 END

**OUTPUT:**

Forloop3wihList 1

2

3

4

5

Forloop3wihList  
 @{items} create list *john lochu veena jyo* FOR ${i} IN @{items}  
 log to console ${i}  
 END

**OUTPUT:**

Forloop3wihList john

lochu

veena

jyo

Forloop3withExit  
 @{items} create list *1 2 3 4 5* FOR ${i} IN @{items}  
 log to console ${i}  
 exit for loop if ${i}*== 3* END

**OUTPUT:**

Forloop3withExit 1

2

3

# How to Count & Extract Link Texts in Robot Framework

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://demo.guru99.com/test/newtours/*\*\*\* Test Cases \*\*\*  
Get Links  
 set selenium speed *0.5* open browser ${url} ${browser}  
 maximize browser window  
 ${countLinks}= get element count *xpath://a* log to console ${countLinks}  
  
  
 @{linkItems} create list  
 FOR ${i} IN RANGE *1* ${countLinks}*+1* ${linkText}= get text *xpath:(//a)[*${i}*]* log to console ${linkText}  
 END  
  
 close browser

==============================================================================

GetAllLinks

==============================================================================

Get Links .

DevTools listening on ws://127.0.0.1:50897/devtools/browser/893d7115-a7d4-4b32-a1e7-3d0ee7195d4d

...61

..

Demo Site

Testing

Selenium

Live Project

Java

Selenium

Insurance Project

Agile Project

Bank Project

Security Project

Telecom Project

Payment Gateway Project

New Tours

SEO

Home

Flights

Hotels

Car Rentals

Cruises

Destinations

Vacations

SIGN-ON

REGISTER

SUPPORT

CONTACT

your destination

featured vacation destinations

Register here

Business Travel @ About.com

Salon Travel

Get Links | PASS |

------------------------------------------------------------------------------

GetAllLinks | PASS |

1 test, 1 passed, 0 failed

==============================================================================

Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

Log: C:\Users\vlab\PycharmProjects\Robot\log.html

Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# How to Handle Web/HTML Table in Robot Framework

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://testautomationpractice.blogspot.com/*\*\*\* Test Cases \*\*\*  
Table  
 set selenium speed *0.5* open browser ${url} ${browser}  
 maximize browser window  
 ${row}= get element count *xpath://table[@name='BookTable']/tbody/tr* log to console ${row}  
 ${col}= get element count *xpath://table[@name='BookTable']/tbody/tr[1]/th* log to console ${col}  
 ${data}= get text *xpath://table[@name='BookTable']/tbody/tr[4]/td[1]* log to console ${data}  
  
 table column should contain *xpath://table[@name='BookTable'] 2 Author* table row should contain *xpath://table[@name='BookTable'] 4 Learn JS* table cell should contain *xpath://table[@name='BookTable'] 5 2 Mukesh* table header should contain *xpath://table[@name='BookTable'] BookName* #table footer should contain xpath://table[@name='BookTable'] `Amit  
 table should contain *xpath://table[@name='BookTable'] Price* close browser

(.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\TableDemo.robot

==============================================================================

TableDemo

==============================================================================

Table .

DevTools listening on ws://127.0.0.1:59015/devtools/browser/0e6f6548-1e32-4f5b-af20-665b9331819d

...7

..4

..Learn JS

Table **| PASS |**

------------------------------------------------------------------------------

TableDemo **| PASS |**

1 test, 1 passed, 0 failed

==============================================================================

Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

Log: C:\Users\vlab\PycharmProjects\Robot\log.html

Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# Data Driven Testing Using Script in Robot Framework

**Resource File:**

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://admin-demo.nopcommerce.com/login?returnurl=%2Fadmin%2F*\*\*\* Keywords \*\*\*  
Opening  
 open browser ${url} ${browser}  
 maximize browser window  
  
Login page  
 go to ${url}  
  
Input username  
 [Arguments] ${username}  
 input text *id:Email* ${username}  
  
Input Password  
 [Arguments] ${pswd}  
 input text *id:Password* ${pswd}  
  
Login button  
 click element *xpath://button[@type='submit']*Logout link  
 click link *Logout*Error Message  
 page should contain *Login was unsuccessful*Login success  
 page should contain *Dashboard*Closing  
 close all browsers

**Test File:**

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*Resource *../Resources/login\_resources.robot*Suite Setup Opening  
Suite Teardown Closing  
Test Template Invalid Login  
  
\*\*\* Test Cases \*\*\* usr pswd  
Right user empty pass admin@yourstore.com ${EMPTY}  
Right user wrong pass admin@yourstore.com hello  
wrong user right pass admn@yourstore.com admin  
wrong usr wrong pass admin@yourstore.co ad  
wrong user empty pass admin@yourstore.co ${EMPTY}  
  
  
\*\*\* Keywords \*\*\*  
Invalid Login  
 [Arguments] ${usr} ${pswd}  
 Input username ${usr}  
 Input Password ${pswd}  
 Login button  
 Error Message

(.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\Data\_Driven\_test.robot

==============================================================================

Data Driven test

==============================================================================

DevTools listening on ws://127.0.0.1:49588/devtools/browser/2d73d8ec-ee20-413d-b2f9-14c31d6a8b8f

Right user empty pass **| PASS |**

------------------------------------------------------------------------------

Right user wrong pass **| PASS |**

------------------------------------------------------------------------------

wrong user right pass **| PASS |**

------------------------------------------------------------------------------

wrong usr wrong pass **| PASS |**

------------------------------------------------------------------------------

wrong user empty pass **| PASS |**

------------------------------------------------------------------------------

Data Driven test **| PASS |**

5 tests, 5 passed, 0 failed

==============================================================================

Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

Log: C:\Users\vlab\PycharmProjects\Robot\log.html

Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# Data Driven Testing Using Excel & CSV Files in Robot Framework

**Using EXCEL :**

**Resource File:**

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://admin-demo.nopcommerce.com/login?returnurl=%2Fadmin%2F*\*\*\* Keywords \*\*\*  
Opening  
 open browser ${url} ${browser}  
 maximize browser window  
  
Login page  
 go to ${url}  
  
Input username  
 [Arguments] ${username}  
 input text *id:Email* ${username}  
  
Input Password  
 [Arguments] ${pswd}  
 input text *id:Password* ${pswd}  
  
Login button  
 click element *xpath://button[@type='submit']*Logout link  
 click link *Logout*Error Message  
 page should contain *Login was unsuccessful*Login success  
 page should contain *Dashboard*Closing  
 close all browsers

**Test File:**

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*Resource *../Resources/login\_resources.robot*Library *DataDriver file=TestData/LoginData.xlsx*Suite Setup Opening  
Suite Teardown Closing  
Test Template Invalid Login  
  
\*\*\* Test Cases \*\*\*  
LogintestWithExcel using ${usr} ${pswd}  
  
\*\*\* Keywords \*\*\*  
Invalid Login  
 [Arguments] ${usr} ${pswd}  
 Input username ${usr}  
 Input Password ${pswd}  
 Login button  
 Error Message

(.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\DDT\_Excel.robot

==============================================================================

DDT Excel

==============================================================================

DevTools listening on ws://127.0.0.1:52015/devtools/browser/86ef7581-51a7-4e50-ba20-5e72abf0fe50

LogintestWithExcel using admin@yourstore.com **| PASS |**

------------------------------------------------------------------------------

LogintestWithExcel using admin@yourstore.com hello **| PASS |**

------------------------------------------------------------------------------

LogintestWithExcel using admn@yourstore.com admin **| PASS |**

------------------------------------------------------------------------------

LogintestWithExcel using admin@yourstore.co ad **| PASS |**

------------------------------------------------------------------------------

LogintestWithExcel using admin@yourstore.co **| PASS |**

------------------------------------------------------------------------------

DDT Excel **| PASS |**

5 tests, 5 passed, 0 failed

**Using CSV :**

**Resource File:**

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://admin-demo.nopcommerce.com/login?returnurl=%2Fadmin%2F*\*\*\* Keywords \*\*\*  
Opening  
 open browser ${url} ${browser}  
 maximize browser window  
  
Login page  
 go to ${url}  
  
Input username  
 [Arguments] ${username}  
 input text *id:Email* ${username}  
  
Input Password  
 [Arguments] ${pswd}  
 input text *id:Password* ${pswd}  
  
Login button  
 click element *xpath://button[@type='submit']*Logout link  
 click link *Logout*Error Message  
 page should contain *Login was unsuccessful*Login success  
 page should contain *Dashboard*Closing  
 close all browsers

**Test File:**

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*Resource *../Resources/login\_resources.robot*Library *DataDriver file=TestData/Logindata.csv*Suite Setup Opening  
Suite Teardown Closing  
Test Template Invalid Login  
  
\*\*\* Test Cases \*\*\*  
LogintestWithExcel using ${usr} ${pswd}  
  
\*\*\* Keywords \*\*\*  
Invalid Login  
 [Arguments] ${usr} ${pswd}  
 Input username ${usr}  
 Input Password ${pswd}  
 Login button  
 Error Message

(.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\DDT\_csv.robot

==============================================================================

DDT csv

==============================================================================

[ WARN ] Error sending stats to Plausible: error sending request for url (https://plausible.io/api/event): operation timed out

DevTools listening on ws://127.0.0.1:52773/devtools/browser/f37a77bc-475b-4910-ac66-cb242755a2eb

LogintestWithExcel using admin@yourstore.com **| PASS |**

------------------------------------------------------------------------------

LogintestWithExcel using admin@yourstore.com hello **| PASS |**

------------------------------------------------------------------------------

LogintestWithExcel using admn@yourstore.com admin **| PASS |**

------------------------------------------------------------------------------

LogintestWithExcel using admin@yourstore.co ad **| PASS |**

------------------------------------------------------------------------------

LogintestWithExcel using admin@yourstore.co **| PASS |**

------------------------------------------------------------------------------

DDT csv **| PASS |**

5 tests, 5 passed, 0 failed

==============================================================================

Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

Log: C:\Users\vlab\PycharmProjects\Robot\log.html

Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# Setup & TearDown in Robot FrameworkRobot

\*\*\* Settings \*\*\*  
  
Suite Setup log to console *Opening*Suite Teardown log to console *Closing*Test Setup log to console *login into app*Test Teardown log to console *logout to app*\*\*\* Test Cases \*\*\*  
Prepaid recharge  
 log to console *this is prepaid recharge*Postpaid recharge  
 log to console *this is postpaid recharge*Search  
 log to console *this is search test case*Advanced search  
 log to console *this is advanced search test case*

(.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\Setup\_Teardown.robot

==============================================================================

Setup Teardown

==============================================================================

Opening

Prepaid recharge login into app

.this is prepaid recharge

.logout to app

Prepaid recharge | PASS |

------------------------------------------------------------------------------

Postpaid recharge login into app

.this is postpaid recharge

.logout to app

Postpaid recharge | PASS |

------------------------------------------------------------------------------

Search login into app

.this is search test case

.logout to app

Search | PASS |

------------------------------------------------------------------------------

Advanced search login into app

.this is advanced search test case

.logout to app

Advanced search | PASS |

------------------------------------------------------------------------------

Closing

Setup Teardown | PASS |

4 tests, 4 passed, 0 failed

==============================================================================

Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

Log: C:\Users\vlab\PycharmProjects\Robot\log.html

Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# Tags | Grouping Tests in Robot FrameworkRobot

\*\*\* Settings \*\*\*  
  
  
\*\*\* Test Cases \*\*\*  
RegTest  
 [Tags] *regression* log to console *this is registration test* log to console *registration is over*logintest  
 [Tags] *sanity* log to console *this is login test* log to console *login test is over*ChangeUser  
 [Tags] *regression* log to console *this is changing username test* log to console *changing is done*LogOut  
 [Tags] *sanity* log to console *this is logging out test* log to console *logging is out is done*

**(.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot --include=sanity TestCases\Tags.robot**

==============================================================================

Tags

==============================================================================

logintest this is login test

.login test is over

logintest **| PASS |**

------------------------------------------------------------------------------

LogOut this is logging out test

.logging is out is done

------------------------------------------------------------------------------

Tags **| PASS |**

**2 tests, 2 passed, 0 failed**

==============================================================================

Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

Log: C:\Users\vlab\PycharmProjects\Robot\log.html

Report: C:\Users\vlab\PycharmProjects\Robot\report.html

**(.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot --include=regression** TestCases\Tags.robot

==============================================================================

Tags

==============================================================================

RegTest this is registration test

.registration is over

RegTest **| PASS |**

------------------------------------------------------------------------------

ChangeUser this is changing username test

.changing is done

------------------------------------------------------------------------------

Tags **| PASS |**

**2 tests, 2 passed, 0 failed**

==============================================================================

Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

Log: C:\Users\vlab\PycharmProjects\Robot\log.html

Report: C:\Users\vlab\PycharmProjects\Robot\report.html

**(.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot -i regression -i sanity** TestCases\Tags.robot

==============================================================================

Tags

==============================================================================

RegTest this is registration test

.registration is over

RegTest **| PASS |**

------------------------------------------------------------------------------

logintest this is login test

.login test is over

logintest **| PASS |**

------------------------------------------------------------------------------

ChangeUser this is changing username test

.changing is done

ChangeUser **| PASS |**

------------------------------------------------------------------------------

LogOut this is logging out test

.logging is out is done

------------------------------------------------------------------------------

Tags **| PASS |**

**4 tests, 4 passed, 0 failed**

==============================================================================

Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

Log: C:\Users\vlab\PycharmProjects\Robot\log.html

Report: C:\Users\vlab\PycharmProjects\Robot\report.html

* **-i (include the tag)**
* **-e (exclude the tag)**

**(.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot -i regression -e sanity** TestCases\Tags.robot

==============================================================================

Tags

==============================================================================

RegTest this is registration test

.registration is over

RegTest **| PASS |**

------------------------------------------------------------------------------

ChangeUser this is changing username test

.changing is done

------------------------------------------------------------------------------

Tags **| PASS |**

**2 tests, 2 passed, 0 failed**

==============================================================================

Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

Log: C:\Users\vlab\PycharmProjects\Robot\log.html

Report: C:\Users\vlab\PycharmProjects\Robot\report.html

**(.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot -e regression TestCases\Tags.robot**

==============================================================================

Tags

==============================================================================

logintest this is login test

.login test is over

logintest **| PASS |**

------------------------------------------------------------------------------

LogOut this is logging out test

.logging is out is done

LogOut **| PASS |**

------------------------------------------------------------------------------

Tags **| PASS |**

**2 tests, 2 passed, 0 failed**

==============================================================================

Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

Log: C:\Users\vlab\PycharmProjects\Robot\log.html

Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# Page Object Model (POM) Pattern in Robot Framework

LOC: ../PageObjects/Locator.py

#login page elements  
  
txt\_loginuser="name:userName"  
txt\_loginpassword="name:password"  
loginbtn="xpath://input[@type='submit']"  
  
#registration page elements  
link\_Reg="link:REGISTER"  
txt\_firstname="name:firstName"  
txt\_lastname="name:lastName"  
txt\_phone="name:phone"  
txt\_email="name:userName"  
txt\_add1="name:address1"  
txt\_city="name:city"  
txt\_state="name:state"  
txt\_postCode="name:postalCode"  
txt\_country="name:country"  
txt\_username="name:email"  
txt\_password="name:password"  
txt\_confrmpwd="name:confirmPassword"  
btn\_submit="xpath://input[@name='submit']"  
txt\_loginusername="name:userName"  
txt\_loginpassword="name:password"

LOC: ../Resources/Reg\_keywords.robot

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*Variables *../PageObjects/Locator.py*\*\*\* Keywords \*\*\*  
Open\_my\_browser  
 [Arguments] ${url} ${browser}  
 open browser ${url} ${browser}  
 maximize browser window  
  
click reg link  
 click link ${link\_Reg}  
  
Enter firstname  
 [Arguments] ${firstname}  
 input text ${txt\_firstname} ${firstname}  
  
Enter lastname  
 [Arguments] ${lname}  
 input text ${txt\_lastname} ${lname}  
  
Enter phone  
 [Arguments] ${phone}  
 input text ${txt\_phone} ${phone}  
  
Enter email  
 [Arguments] ${email}  
 input text ${txt\_email} ${email}  
  
Enter address1  
 [Arguments] ${add1}  
 input text ${txt\_add1} ${add1}  
  
Enter city  
 [Arguments] ${city}  
 input text ${txt\_city} ${city}  
  
Enter state  
 [Arguments] ${state}  
 input text ${txt\_state} ${state}  
  
Enter postal code  
 [Arguments] ${postalcode}  
 input text ${txt\_postCode} ${postalcode}  
  
Select country  
 [Arguments] ${country}  
 select from list by label ${txt\_country} ${country}  
  
Enter username  
 [Arguments] ${username}  
 input text ${txt\_username} ${username}  
  
Enter password  
 [Arguments] ${pswd}  
 input text ${txt\_password} ${pswd}  
  
Enter confirm password  
 [Arguments] ${confrmpwd}  
 input text ${txt\_confrmpwd} ${confrmpwd}  
  
Click Submit  
 click button ${btn\_submit}  
  
Successful register  
 title should be *Register: Mercury Tours*Enter loginusername  
 [Arguments] ${user}  
 Input text ${txt\_loginusername} ${user}  
  
Enter loginpassword  
 [Arguments] ${pswd}  
 Input text ${txt\_loginpassword} ${pswd}  
  
Click SignIn  
 click button *//input[@name='submit']*Successful login  
 title should be *Login: Mercury Tours*Closing  
 close all browsers

LOC: ../TestCases/Registration\_test.robot

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*Resource *../Resources/Reg\_keywords.robot*\*\*\* Variables \*\*\*  
${browser} *chrome*${siteURL} *https://demo.guru99.com/test/newtours/*\*\*\* Test Cases \*\*\*  
Registration Test  
 set selenium speed *0.5* Open\_my\_browser ${siteURL} ${browser}  
 click reg link  
 Enter firstname *Lochani Vilehya* Enter lastname *Surisetti* Enter phone *8328670983* Enter email *lochu5vilehya@gmail.com* Enter address1 *India* Enter city *Rajahmundry* Enter state *Andhra Pradesh* Enter postal code *533102* Select country *CANADA* Enter username *lochu-55* Enter password *Lovely@3455* Enter confirm password *Lovely@3455* Click Submit  
 Successful register  
 go to *https://demo.guru99.com/test/newtours/index.php* Enter loginusername *lochu-55* Enter loginpassword *Lovely@3455* click SignIn  
 Successful login  
 Closing

(.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\Registration\_test.robot

==============================================================================

Registration test

==============================================================================

Registration Test .

DevTools listening on ws://127.0.0.1:53381/devtools/browser/2110d5a1-0fed-4bf8-89d1-873849cffd9b

Registration Test **| PASS |**

------------------------------------------------------------------------------

Registration test **| PASS |**

1 test, 1 passed, 0 failed

==============================================================================

Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

Log: C:\Users\vlab\PycharmProjects\Robot\log.html

Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# Parallel Test Execution in Robot Framework

**How to run test suites**

1. **Using specific folder**

(.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\

🡪it runs all tests under the TestCases folder

1. **Using regular expressions**

(.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\Reg\*.robot

* It runs all tests in TestCases folder starting with name Reg

# How to run tests parallelly using robot framework-pabot

# (.venv) PS C:\Users\vlab\PycharmProjects\Robot> pabot --processes 2 Testcases\POM\_test.robot Testcases\Registration\_test.robot

# Storing .pabotsuitenames file

# 2024-04-03 10:01:46.383062 [PID:4012] [0] [ID:1] EXECUTING Suites.Registration test

# 2024-04-03 10:01:46.384062 [PID:17516] [1] [ID:0] EXECUTING Suites.POM test

# DevTools listening on ws://127.0.0.1:54486/devtools/browser/65f83b29-3bf3-472e-afbe-a0a5c0c9162c

# DevTools listening on ws://127.0.0.1:54487/devtools/browser/bc6282a7-aa85-4be9-89ac-4e91c2825be7

# 2024-04-03 10:02:01.943993 [PID:4012] [0] [ID:1] still running Suites.Registration test after 15.0 seconds

# 2024-04-03 10:02:02.044538 [PID:17516] [1] [ID:0] still running Suites.POM test after 15.0 seconds

# 2024-04-03 10:02:22.054413 [PID:4012] [0] [ID:1] still running Suites.Registration test after 35.0 seconds

# 2024-04-03 10:02:22.152726 [PID:17516] [1] [ID:0] still running Suites.POM test after 35.0 seconds

# 2024-04-03 10:02:47.444835 [PID:4012] [0] [ID:1] still running Suites.Registration test after 60.0 seconds

# 2024-04-03 10:02:47.555756 [PID:17516] [1] [ID:0] still running Suites.POM test after 60.0 seconds

# 2024-04-03 10:03:17.801760 [PID:4012] [0] [ID:1] still running Suites.Registration test after 90.0 seconds

# 2024-04-03 10:03:17.947891 [PID:17516] [1] [ID:0] still running Suites.POM test after 90.0 seconds

# 2024-04-03 10:03:29.918476 [PID:17516] [1] [ID:0] PASSED Suites.POM test in 101.9 seconds

# 2024-04-03 10:03:53.055293 [PID:4012] [0] [ID:1] still running Suites.Registration test after 125.0 seconds

# 2024-04-03 10:03:58.075602 [PID:4012] [0] [ID:1] PASSED Suites.Registration test in 130.0 seconds

# 2 tests, 2 passed, 0 failed, 0 skipped.

# ===================================================

# Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

# Log: C:\Users\vlab\PycharmProjects\Robot\log.html

# Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# Total testing: 3 minutes 51.90 seconds

# Elapsed time: 2 minutes 12.66 seconds

**To create separate folders for outputs**

(.venv) PS C:\Users\vlab\PycharmProjects\Robot>pabot --processes 2 **--outputdir POM\_Results** Testcases\POM\_test.robot Testcases\Registration\_test.robot

# How to run tests using single windows bat file

# Used to run the robot files from the command prompt

* Create a run.bat file at project level

cd C:\Users\vlab\PycharmProjects\Robot  
pabot --processes 2 --outputdir Results Testcases\POM\_test.robot Testcases\Registration\_test.robot

* Right click on the run.bat file using “Run cmd script”

# Headless Browser Testing in Robot Framework

* Here we can’t see the UI
* To run in backend we must replace the browser name “chrome” to “headlesschrome”
* We can also use it for other browsers like “headlessfirefox”
* The execution of the code is done in the back end
* Only we can see the output in the console

Example:

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*Resource *../Resources/resources.robot*\*\*\* Variables \*\*\*  
${browser} *headlesschrome*${url} *https://demo.guru99.com/test/newtours/*\*\*\* Test Cases \*\*\*  
TC1  
 ${pageTitle}= LoginBrowser ${url} ${browser}  
  
 log to console ${pageTitle}  
 log ${pageTitle}  
 input text *userName lochu5viehya@gmail.com* input text *password Lovely@3455* close browser

(.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\UserDefinedKeywords.robot

[ WARN ] Error in file 'C:\Users\vlab\PycharmProjects\Robot\Resources\resources.robot' on line 11: The '[Return]' setting is deprecated. Use the 'RETURN' stat

ement instead.

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UserDefinedKeywords

==============================================================================

TC1

DevTools listening on ws://127.0.0.1:55895/devtools/browser/eabe6950-b29a-4656-9b76-0f37d4265519

.Welcome: Mercury Tours

TC1 **| PASS |**

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UserDefinedKeywords **| PASS |**

1 test, 1 passed, 0 failed

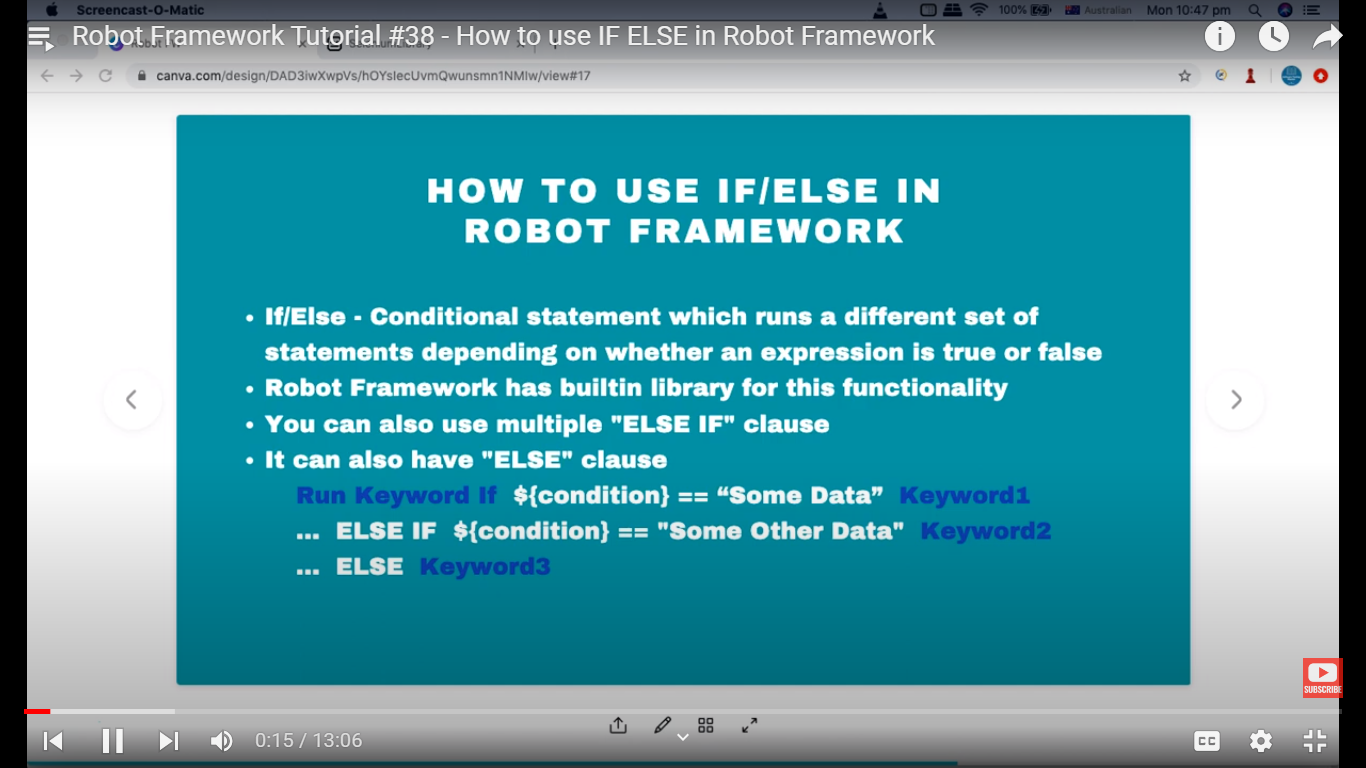
==============================================================================

Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

Log: C:\Users\vlab\PycharmProjects\Robot\log.html

Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# How to use IF ELSE in Robot Framework



\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://www.saucedemo.com/*\*\*\* Test Cases \*\*\*  
Test using if else  
 open browser ${url} ${browser}  
 maximize browser window  
 input text *id:user-name standard\_user* input text *id:password secret\_sauce* click button *xpath://input[@name='login-button']* ${items}= get element count *xpath://\*[@class='inventory\_list']/div* run keyword if ${items} *== 10 Test1* ... *ELSE IF* ${items} *< 10 and* ${items} *> 6 Test2* ... *ELSE Test3*\*\*\* Keywords \*\*\*  
Test1  
 log to console *Found items as expected* close browser  
  
Test2  
 log to console *Founde items less than expected* close browser  
  
Test3  
 log to console *Exception occured* close browser

(.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\if\_else.r

obot

=========================================================================

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If Else

=========================================================================

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Test using if else

DevTools listening on ws://127.0.0.1:57358/devtools/browser/a54a7905-8ba2

-4a4f-a2f7-6ae0efe6d1b2

**......6**

**.Exception occured**

Test using if else **| PASS |**

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If Else **| PASS |**

1 test, 1 passed, 0 failed

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Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

Log: C:\Users\vlab\PycharmProjects\Robot\log.html

Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# List Variable in Robot Framework

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://www.saucedemo.com/***@{username} *standard\_user locked\_out\_user*... *problem\_user performance\_glitch\_user*... *error\_user visual\_user***\*\*\* Test Cases \*\*\*  
Test List variable  
 open browser ${url} ${browser}  
 maximize browser window  
 set selenium speed *1* input text *id:user-name* ${username}*[3]* input text *id:password secret\_sauce* click button *xpath://input[@name='login-button']* ${items}= get element count *xpath://\*[@class='inventory\_list']/div* log to console ${items}  
  
\*\*\* Keywords \*\*\*

(.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\list\_variable.robot

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List Variable

==============================================================================

Test List variable

DevTools listening on ws://127.0.0.1:57580/devtools/browser/dd5e6768-1684-4ce1-962c-87fbaa877266

**.......6**

Test List variable **| PASS |**

------------------------------------------------------------------------------

List Variable **| PASS |**

1 test, 1 passed, 0 failed

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Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

Log: C:\Users\vlab\PycharmProjects\Robot\log.html

Report: C:\Users\vlab\PycharmProjects\Robot\report.html

# Dictionary Variable in Robot Framework

\*\*\* Settings \*\*\*  
Library *SeleniumLibrary*\*\*\* Variables \*\*\*  
${browser} *chrome*${url} *https://www.saucedemo.com/*&{username} *a=standard\_user b=locked\_out\_user*... *c=problem\_user d=performance\_glitch\_user*... *e=error\_user f=visual\_user*\*\*\* Test Cases \*\*\*  
Test List variable  
 open browser ${url} ${browser}  
 maximize browser window  
 set selenium speed *1* input text *id:user-name* ${username}*[c]* input text *id:password secret\_sauce* click button *xpath://input[@name='login-button']* ${items}= get element count *xpath://\*[@class='inventory\_list']/div* log to console ${items}  
  
\*\*\* Keywords \*\*\*

(.venv) PS C:\Users\vlab\PycharmProjects\Robot> robot TestCases\Dict\_variable.robot

==============================================================================

Dict variable

==============================================================================

Test List variable

DevTools listening on ws://127.0.0.1:57623/devtools/browser/a7162f36-b04a-4e0a-bb5e-89081e335ab7

.......6

Test Dict variable **| PASS |**

------------------------------------------------------------------------------

Dict variable **| PASS |**

1 test, 1 passed, 0 failed

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Output: C:\Users\vlab\PycharmProjects\Robot\output.xml

Log: C:\Users\vlab\PycharmProjects\Robot\log.html

Report: C:\Users\vlab\PycharmProjects\Robot\report.html