

Sisällys

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Links:

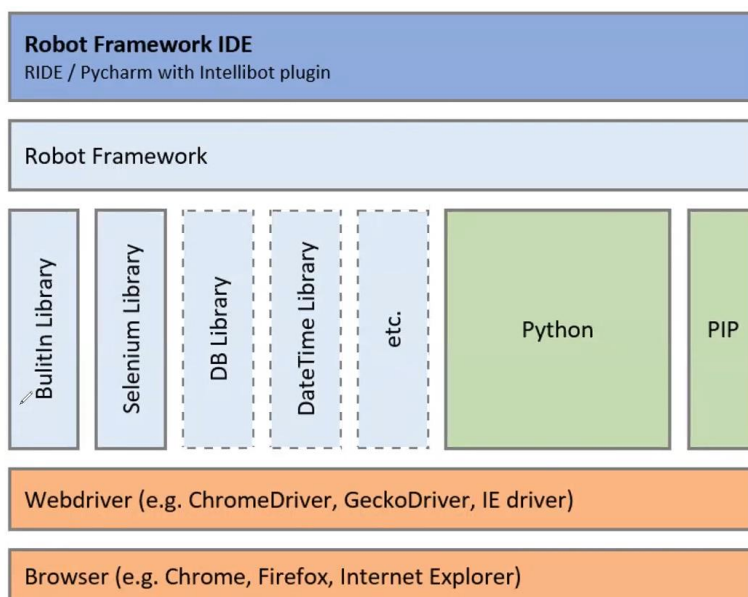
- <https://www.youtube.com/watch?v=UbYxkUq0Hec&list=PLUDwpEzHYLYsCHiihnwI3L0xPspL7BPG>
- C:\coding
- <https://demoqa.com/>

Introduction

Part1

Robot Framework

- **Robot Framework** is a generic test automation framework for **acceptance testing**.
- **Acceptance test-driven development (ATDD)**.
- It utilizes the **keyword-driven testing approach**.
- Provides test libraries implemented either with **Python or Java**, and users **can create new higher-level keywords** from existing ones using the same syntax that is used for creating test cases.
- Not much programming is required.



Part2

Agenda

- Project Folder Structure
- File Extensions
- Multiple sections in Robot file
- Writing Test case
- Report

LoginTest

```
# Open Browser  http://demo.nopcommerce.com/  chrome  executable_path=c:/bin/apu/chromedriver.exe
# Open Browser  http://demo.nopcommerce.com/  chrome
Open Browser    ${url}  ${browser}
Maximize Browser Window
loginToApplication
Sleep  10
```

- set path variable having also c:\bin or give driver like above

Section 1

Part 3

Agenda

- Working with Web Elements
- Text Box/Input Box
 - Visibility status
 - Enabled status
 - Provide value
 - Clearing value
- Verify Title Of the page

Part 4

Agenda

- Working with Radio buttons & Check boxes
 - please check according to Udemy course formerly done (TestingWorld)
 - <https://www.youtube.com/watch?v=DBg0TZGTAKg>

Agenda

- Working with Drop Down & List Box

- <https://www.udemy.com/course/robot-python/learn/lecture/10823530#overview>
- **ListBox** is missing here, didn't find website, but it should be quite straightforward, see below

#List box

```
select from list by label  selenium_commands  Switch Commands
select from list by label  selenium_commands  WebElement Commands
|
unselect from list by label  selenium_commands  Switch Commands
```

- just adding more selections to the script, also unselect after selection

WORKING WITH RADIO BUTTONS

- **Page Should Contain Radio Button** - Verifies radio button locator is found from current page
- **Page Should Not Contain Radio Button** - Verifies radio button locator is not found from current page
- **Select Radio Button** - Sets the radio button group group_name to value
- **Radio Button Should Not Be Selected** - Verifies radio button group group_name has no selection
- **Radio Button Should Be Set To** - Sets the radio button group group_name to value

Part 6

Agenda

- Selenium Speed
- Selenium Timeout
- Implicit wait
- Sleep

Part 7 – Close Single & Multiple browsers

Part 8 – Alerts & Frames

Agenda

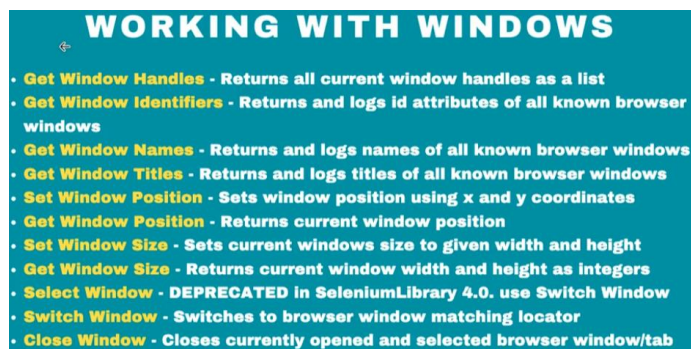
- How to Handle Alerts
- How to Handle Frames

Part 9 – Tabbed Windows & Browser Windows

Agenda

- How to Handle Tabbed Windows
- How to Handle Browser Windows

- <https://www.youtube.com/watch?v=D0LOqI-3-s&t=557s>



WORKING WITH WINDOWS

- **Get Window Handles** - Returns all current window handles as a list
- **Get Window Identifiers** - Returns and logs id attributes of all known browser windows
- **Get Window Names** - Returns and logs names of all known browser windows
- **Get Window Titles** - Returns and logs titles of all known browser windows
- **Set Window Position** - Sets window position using x and y coordinates
- **Get Window Position** - Returns current window position
- **Set Window Size** - Sets current windows size to given width and height
- **Get Window Size** - Returns current window width and height as integers
- **Select Window** - DEPRECATED in SeleniumLibrary 4.0. use Switch Window
- **Switch Window** - Switches to browser window matching locator
- **Close Window** - Closes currently opened and selected browser window/tab

Part 10 – Browser Related Keywords

Agenda

- Browser related Keywords
 - Go To
 - Go Back
 - Get Location

Part 11 Capturing Screen Shots

Agenda

- Capture Element Screen Shot
- Capture Page Screen Shot

Part 12 Mouse Actions

Mouse Actions

- Right Click
- Double Click
- Drag & Drop

Part 13 User Defined Keywords

User Defined Keywords

- User Defined Keyword **without Arguments**
- User Defined Keyword **with Arguments**
- User Defined Keyword **with Arguments & Return value**

Part 14 Scrolling Page Using JavaScriptExecutor

Scrolling Page using JavaScriptExecutor

- Scrolling page till it reach a pixel number
- Scrolling page till find element on page
- Scroll page till the bottom

Part 15 For Loop

Agenda

- For loop in Robot Framework

Part 16 Links, Count and Extract all links

Links

- Count Number of Links on Web Page
- Extract All the Links from Page

+ AllLinkLocators, gives you all links e.g. on IttaSanomat first page

Part 17 HTML Table

Working with HTML Table

- Count Number of Rows in a Table
- Count Number of Columns in a Table
- Get data from Table
- Validations on Table

Part 18 & 19 Data driven testing

Data Driven Testing

- Specify Test Data in the Script
- Read Test Data from Excel file (.xlsx)
- Read Test Data from CSV file (.csv)

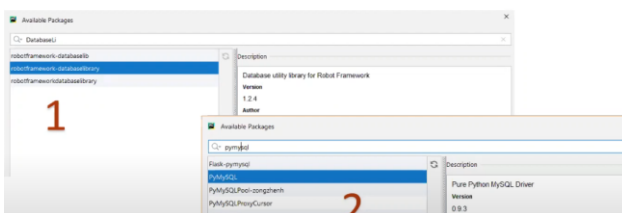
Robot framework Datadrivers Library

- <https://pypi.org/project/robotframework-datadrivers/>
- pip install robotframework-datadrivers
- pip install openpyxl
- see: <https://www.udemy.com/course/robot-python/> Data Driven Testing Chapter 21
- pip install -U robotframework-datadrivers[XLS]
- please see: <https://www.youtube.com/watch?v=ZAdqnG65fzA>

Part 20 Database testing

DatabaseLibrary & pymysql Library

<https://franz-see.github.io/Robotframework-Database-Library/api/0.5/DatabaseLibrary.html>



- pip install robotframework-databaselibrary
- pip install pymysql
- python -m venv virtual

- source virtual/Scripts/activate
- pip freeze > requirements.txt
- https://docs.robotframework.org/docs/different_libraries/database
- <https://marketsquare.github.io/Robotframework-Database-Library/>
- https://docs.robotframework.org/docs/different_libraries/database examples
-

Part 21 at YouTube – Setup & Teardown (Suite and Test)

Setup & TearDown Robot Framework

- Test Setup - will run before every Test Case
- Test Teardown - will run after every Test Case
- Suite Setup - will run before Test Suite
- Suite Teardown - will run after Test Suite

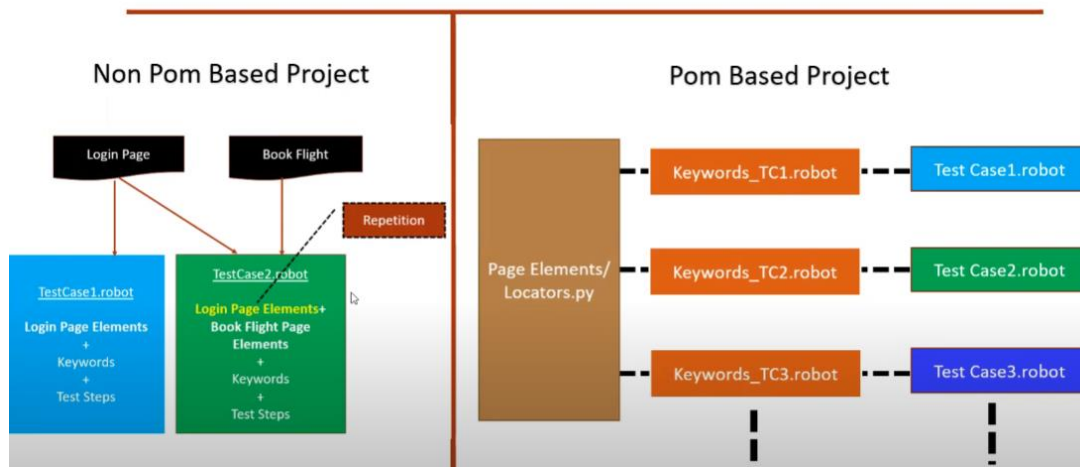
Part 22 Grouping tests using tags

Agenda

- Grouping Tests using Tags
 - robot -d Logs --include regression Tagging.robot
 - robot -d Logs -i sanity Tagging.robot
 - robot -d Logs -i sanity -i regression Tagging.robot
 - robot -d Logs -e final Tagging.robot
 - robot -d Logs -e final -i sanity Tagging.robot

Part 23 POM-model, a design pattern

Page Object Model - Design Pattern



EN ▼

on through device scanning
vertising and content measurement, audience research and services development

3 vendors) and Social Media cookies

Reject All

Manage Settings

Accept All

- didn't find a way to close this pop-up

Part 24 Parallel tests

Executing Test Suites in Robot Framework

- How to Run Test Suites
- How to Run Tests Parallely using robotframework-pabot
- How to Save Results in Results Folder
- How to Run Tests using Single Windows Bat File

How to Run Test Suites

- Appraoch1) Specify Folder

```
cd C:\Users\admin\PycharmProjects\Automation\  
robot TestCases\
```

- Appraoch2) Using Regular Expression

```
cd C:\Users\admin\PycharmProjects\Automation\  
robot TestCases\*.robot
```

How to Run Tests Parallely using robotframework-pabot

- Pre-Req: Install Below package in cmd & PyCharm
- CLI:

```
pip install -U robotframework-pabot
```

```
Microsoft Windows [Version 10.0.17134.885]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32\cmd.exe /c pip install -U robotframework-pabot
```

```
cd C:\Users\admin\PycharmProjects\Automation\
pabot --processes 2 TestCases\*.robot
```

- pip install -U robotframework-pabot (upgrade to latest version)
- pip freeze > requirements.txt
- pabot --processes 2 --outputdir Logs_pabot Project_1/Part_24/TestCases/*.robot
- robot -d Logs_normal --processes 2 Project1/Part_24/TestCases/*.robot
- Runtime normal run vs pabot run - 1:26 vs 0:57

Part 25 Headless mode

Headless Browser Testing in Robotframework

- headlesschrome
- headlessfirefox

- somehow doesn't work on this project, but on a separate one works
- seem to be due to virtual environment – without venv works as expected

Part 26 Jenkins

Jenkins

- How to Run Tests in Jenkins (CI Tool)

<https://www.jenkins.io/doc/pipeline/tour/getting-started/>

<https://www.jenkins.io/download/>

(Generic Java package .war file on this page)

Build Steps

≡ Execute Windows batch command ?

Command

See [the list of available environment variables](#)

```
cd C:\coding\RobotFramework_Pavan\Project_1
run.bat
```

Advanced ▾

Add build step ▾