

ROBOT FRAMEWORK INSTALLATION AND TEST SETUP

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1. Standard Libraries for Robot Framework

Link : <https://robotframework.org/robotframework/>

2. External Libraries for Robot Framework

- a. Selenium Library – web testing library for Robot framework. Click below

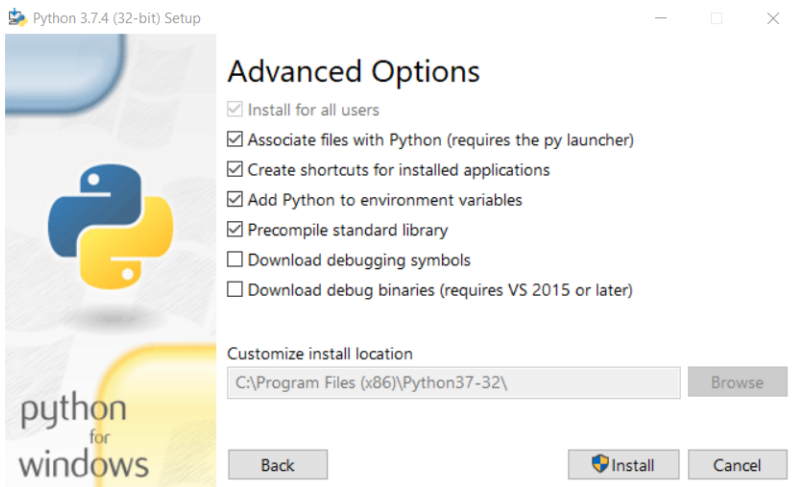
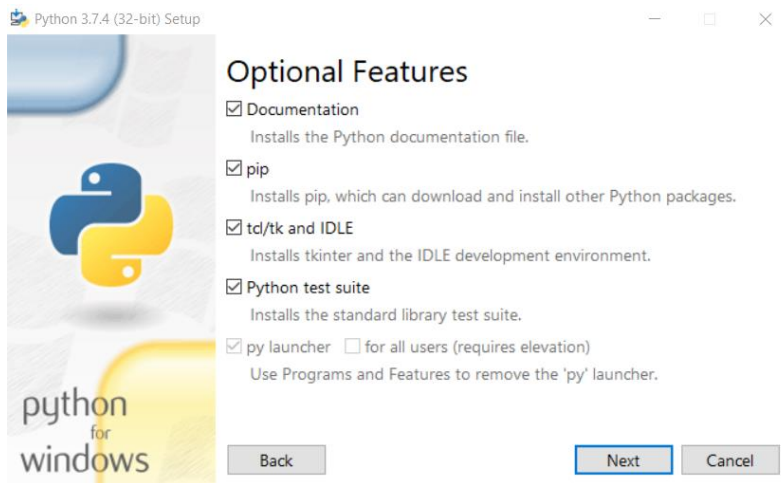
Link : <https://robotframework.org/SeleniumLibrary/SeleniumLibrary.html#Alert%20Should%20Be%20Present>

STEP 7 : Robot Framework Basic Test Script Example

Manual Installation:

STEP 1 : Python 3 Installation (recommended version : Python 3.7)

- Download [Here](#)



STEP 2 : WebDriver Chrome Download Link : <https://sites.google.com/a/chromium.org/chromedriver/>

1. Select the Latest Chromedriver

ChromeDriver






WebDriver is an open source tool for automated testing of webapps across many browsers. It provides capabilities for navigating to web pages, user input, JavaScript execution, and more. ChromeDriver is a standalone server that implements the [W3C WebDriver standard](#). ChromeDriver is available for Chrome on Android and Chrome on Desktop (Mac, Linux, Windows and ChromeOS).

You can view the current implementation status of the WebDriver standard [here](#).

All versions available in Downloads



- Latest stable release: ChromeDriver 80.0.3987.16
- Previous stable release: ChromeDriver 79.0.3945.36
- Latest beta release: coming soon

2. Select the specified chromedriver file based on your local OS.




<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>E tag</u>
 Parent Directory	-	-	-
 chromedriver_linux64.zip	2019-12-19 17:39:26	4.71MB	e1a87e90a683689079a6759f82106839
 chromedriver_mac64.zip	2019-12-19 17:39:28	6.68MB	a309270bff1becfa9addfaf769f7ba3b
 chromedriver_win32.zip	2019-12-19 17:39:29	4.17MB	ae4f6a5f5f8ac4cba251ba96985c53c5
 notes.txt	2019-12-19 17:39:33	0.00MB	7f810e0a978a0caa109ce14f89af6da0

3. Save the downloaded chromedriver zipped file to your desired location

4. Unzipped the downloaded file

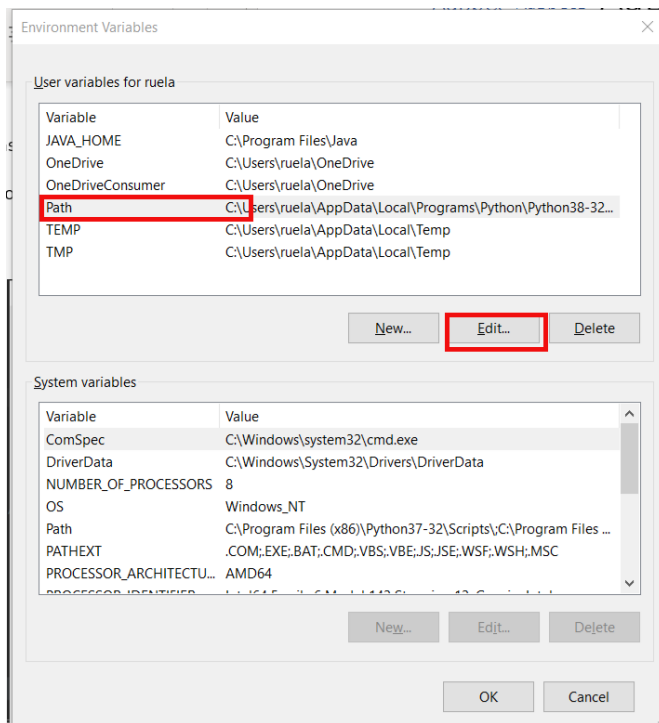
Name	Date modified	Type	Size
 chromedriver_win32	06/01/2020 6:15 PM	File folder	
 chromedriver_win32	06/01/2020 6:15 PM	WinRAR ZIP archive	4,164 KB

5. Copy the file “chromedriver” from the folder and paste it to webdriver folder at this location C:\webdriver. If no webdriver folder, you can manually create a new one.

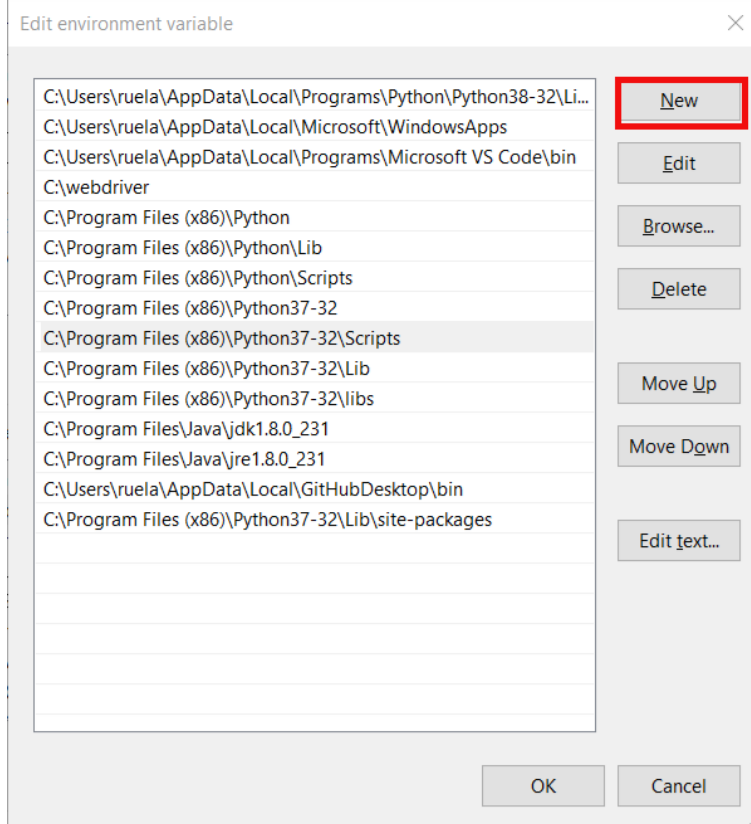
This PC > OS (C:) > webdriver				
Name	Date modified	Type	Size	
 chromedriver	13/11/2019 11:06 AM	Application	7,559 KB	
 geckodriver	12/10/2019 8:38 AM	Application	3,483 KB	
 IEDriverServer	17/10/2019 2:12 PM	Application	3,341 KB	

STEP 3 : Environmental Variables Path Configuration on Windows

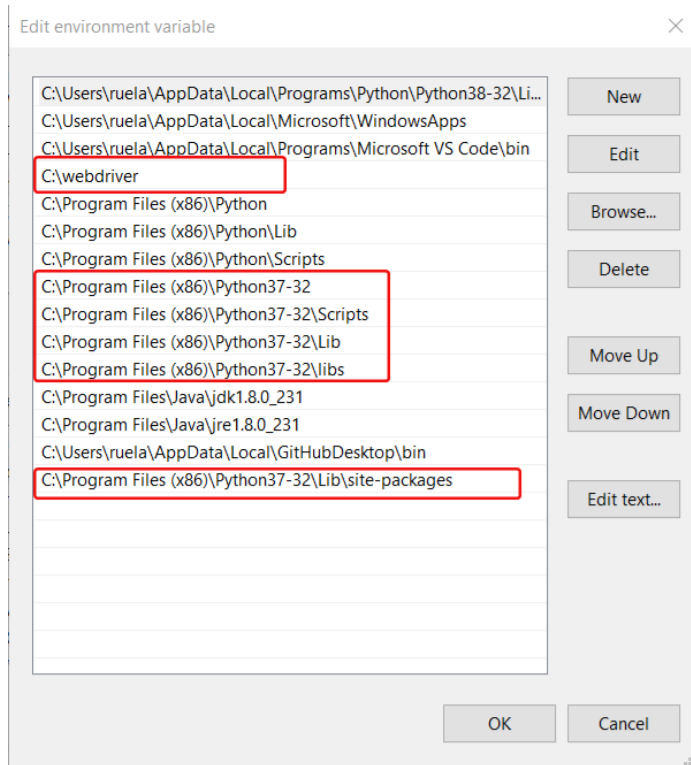
1. Type Environmental Variables on Windows Search
2. Click Path then Click Edit



3. Click New button then input the ff :
 - a. C:\webdriver
 - b. C:\Program Files (x86)\Python37-32\Lib\site-packages
 - c. C:\Program Files (x86)\Python37-32
 - d. C:\Program Files (x86)\Python37-32\Scripts
 - e. C:\Program Files (x86)\Python37-32\libs



4. Verify the information you entered if successful as shown below then click OK



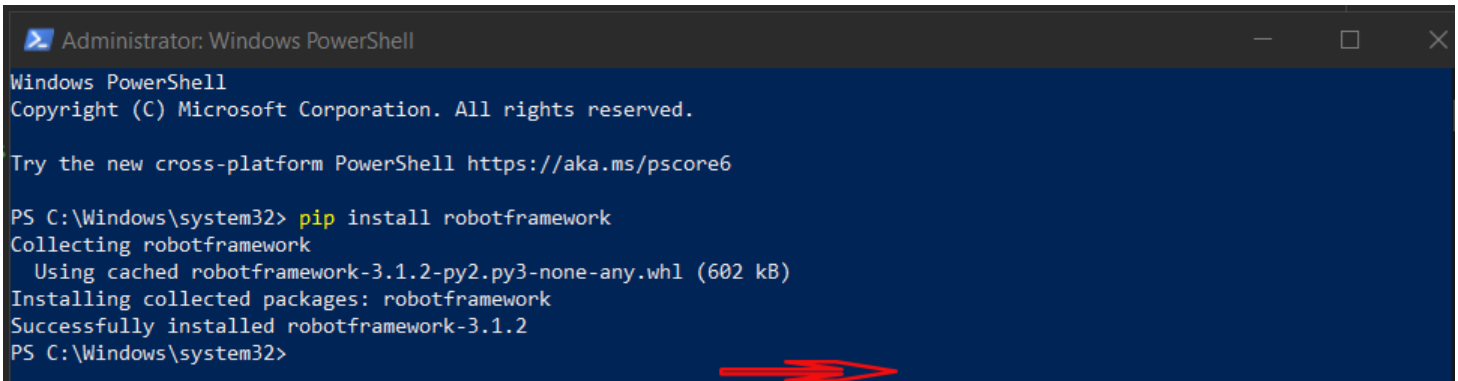
5. Open Command Prompt then type `python --version`. Verify if python installed successfully same as shown below

```
C:\Windows\system32\cmd.exe - python
Microsoft Windows [Version 10.0.18362.592]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\rueia>python
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>
```

STEP 4 : Robot Framework with Selenium Library installation using PIP install

1. Open Command Prompt(admin),
2. Type pip install robotframework then hit ENTER.
3. Type pip install selenium
4. Type pip install robotframework-seleniumlibrary
5. Type pip install robotframework-selenium2library



```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Windows\system32> pip install robotframework
Collecting robotframework
  Using cached robotframework-3.1.2-py2.py3-none-any.whl (602 kB)
Installing collected packages: robotframework
Successfully installed robotframework-3.1.2
PS C:\Windows\system32>
```

6. To verify if all installed components are successfully installed.
 - a. Open CMD
 - b. Type **pip list** then hit ENTER
 - c. Check the result as shown below



```
Administrator: Windows PowerShell

retrying              1.3.3
robotframework        3.1.2
robotframework-autoitlibrary 1.2.4
robotframework-csvlib 1.0.0
robotframework-datadrivers 0.3.6
robotframework-datetimetz 1.0.6
robotframework-excel-datadrivers 1.0.0
robotframework-faker 5.0.0
robotframework-imagelibrary 0.3.0
robotframework-requests 0.6.3
robotframework-ride 1.7.4.1
robotframework-selenium2library 3.0.0
robotframework-seleniumlibrary 4.3.0
robotframework-SikuliLibrary 1.0.8
robotframework-whitelibrary 1.6.0
scrapinghub           2.3.0
```

EXAMPLE ON HOW TO GET INSPECT MANUALLY FROM THE BROWSER

a. How to inspect Username , Password and Sign In button Manually?

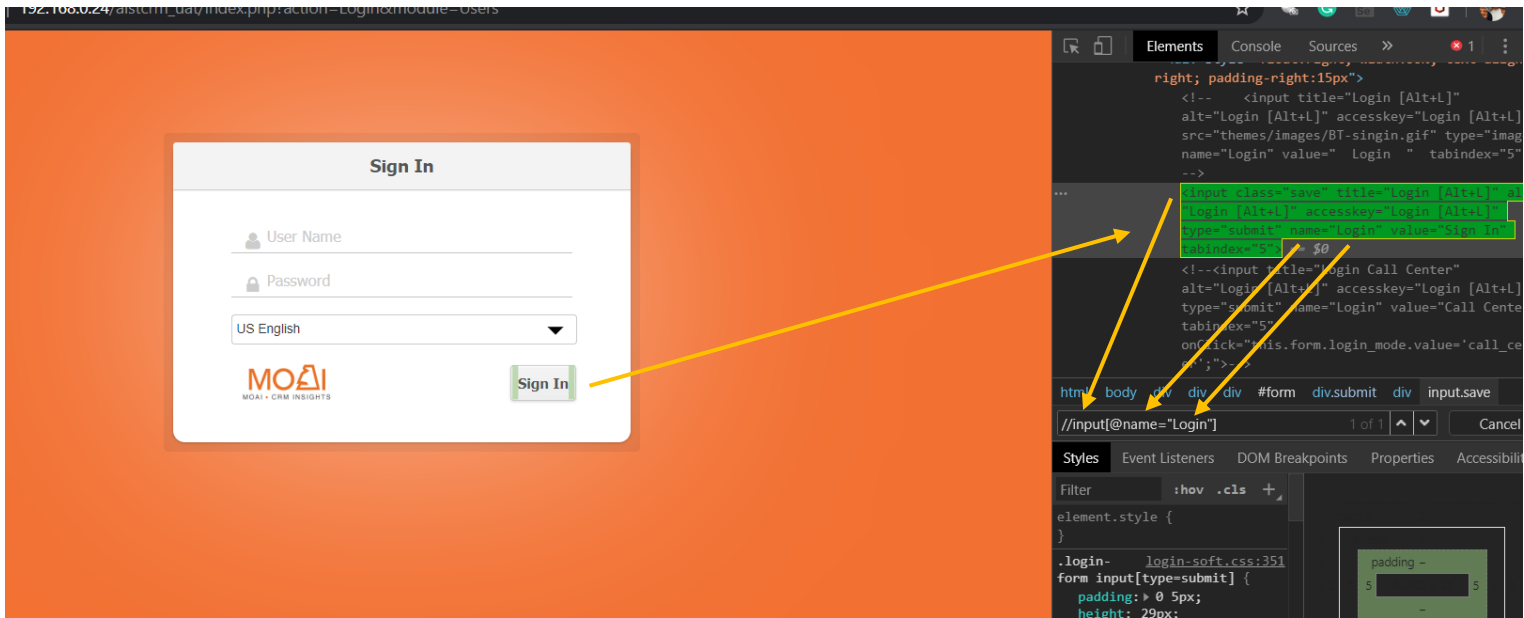
1. The Inspect of Username is `//input[@name="user_name"]`. See Example Below :

The screenshot displays a web browser window with a 'Sign In' form. The form includes a 'User Name' input field, a 'Password' input field, a language dropdown set to 'US English', and a 'Sign In' button. The browser's developer tools are open, showing the DOM tree. The 'input' element for the username is selected, and the search bar at the bottom of the DOM tree contains the XPath expression `//input[@name="user_name"]`. The 'Styles' panel shows the default styles for the selected element.

2. The Inspect of Password is `//input[@name="user_password"]`. See Example Below :

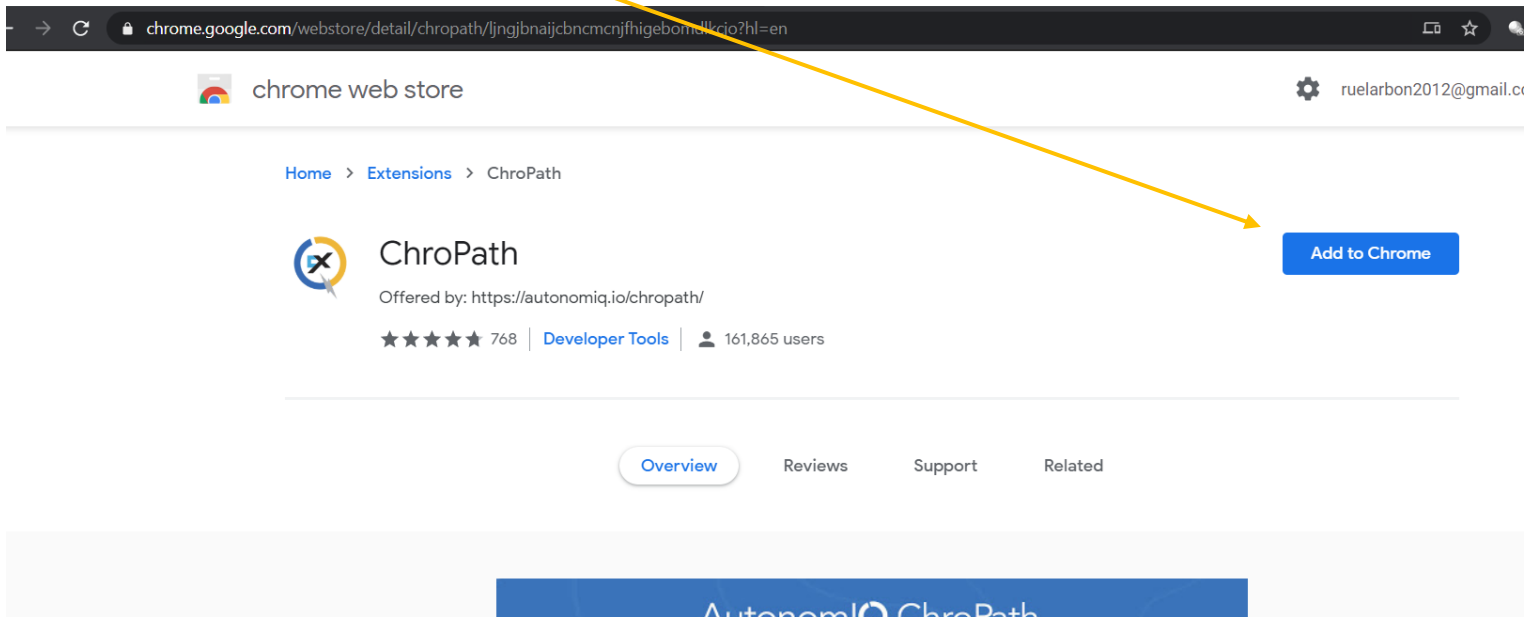
The screenshot shows the same 'Sign In' form, but now the 'Password' input field is selected. The developer tools show the DOM tree with the 'input' element for the password selected. The search bar at the bottom of the DOM tree contains the XPath expression `//input[@name="user_password"]`. The 'Styles' panel shows the default styles for the selected element.

3. The Inspect of Sign In is `//input[@name="Login"]`. See Example Below :



b. Other ways to inspect. Click Link Below

1. Click Here <https://chrome.google.com/webstore/detail/chropath/ljngjbnaajcbnmcnjfhigebomdlkjo?hl=en>
2. Click ADD TO CHROME button.



3. Check Username Inspect using ChroPath. See Example below :

- a. Go to Inspect username
- b. Click ChroPath Button as shown below
- c. See inspect element for username : `//*[@placeholder='User Name']`

The screenshot displays a web browser window with the URL `192.168.0.24/aistorm_uat/index.php?action=Login&module=Users`. The page features a 'Sign In' form with the following elements:

- User Name**: A text input field with a user icon placeholder, highlighted by a green dashed box.
- Password**: A text input field with a lock icon placeholder.
- Language**: A dropdown menu currently set to 'US English'.
- MOAI CRM INSIGHTS**: The logo and text for the application.
- Sign In**: A button to submit the login form.

The browser's developer tools are open on the right side. The 'Elements' panel shows the HTML structure of the form. The 'ChroPath' button is located in the bottom right corner of the developer tools. The 'Selectors' panel shows the XPath expression `//*[@placeholder='User Name']` for the selected element.

Robot Framework Basic Test Script Example

*** Settings ***

Library SeleniumLibrary

*** Test Cases ***

Open AIST-CRM
Website

Access Valid Username and password

Input Username
Input your Password
Click Login Button
Click Sales
Close Browser

*** Variables ***

\${URL}	http://192.168.0.24/aistcrm_uat/index.php?action=Login&module=Users
\${BROWSER}	Chrome
\${USER}	<i>"you user name"</i>
\${USER_LOCATOR}	name:user_name
\${PASS_LOCATOR}	name:user_password
\${PASSWORD}	<i>"you password"</i>
\${LOGIN_BUTTON}	name:Login
\${LINK_BUTTON}	//a[contains(text(), "Sales")]

*** Keywords ***

Website

Open Browser	\${URL}	\${BROWSER}
Maximize Browser Window		

Input Username

Input Text	\${USER_LOCATOR}	\${USER}
------------	-------------------------	-----------------

Input your Password

Input Password	\${PASS_LOCATOR}	\${PASSWORD}
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Click Login Button

Click Button	\${LOGIN_BUTTON}
--------------	-------------------------

Click Sales

Click Link	\${LINK_BUTTON}
------------	------------------------

