WinAppDriver

main repo:

https://github.com/microsoft/WinAppDriver

Release repo:

[**https://github.com/Microsoft/WinAppDriver/releases**](https://github.com/Microsoft/WinAppDriver/releases)

**download this from above link and install->** [**WindowsApplicationDriver.msi**](https://github.com/microsoft/WinAppDriver/releases/download/v1.2-RC/WindowsApplicationDriver.msi)

**The default path will be C:\Program Files (x86)\Windows Application Driver\ which contain winAppDriver.exe**

WinAppDriver is based on JSON Wire protocol similar like selenium, Appium.

Tutorial link:

Full 5 videos link:

<https://www.youtube.com/watch?v=Q_HUkWczd34&list=PLEiBaBxmVLi9-Ioe2lys5xpR4S4fUOq7F>

Individual link:

<https://www.youtube.com/watch?v=Q_HUkWczd34>

<https://www.youtube.com/watch?v=7tlRvaObXug>

Tutorial sample code on git:

<https://github.com/sheetalsingh/WinAppDriver>

UI Element locator of winAppDriver:

https://github.com/microsoft/WinAppDriver/blob/master/Docs/AuthoringTestScripts.md

prerequisites of winAppDriver:

1. WinAppDriver only works on Window 10 and above

2. Window 10 sdk

https://developer.microsoft.com/en-us/windows/downloads/windows-10-sdk

3. JAVA 8 OR ABOVE

4. Admin rights on system

5. Windows Developer mode should be on | settings > for developers > developer mode

6. WinAppDriver.exe release

In java we need maven based project having below dependencies

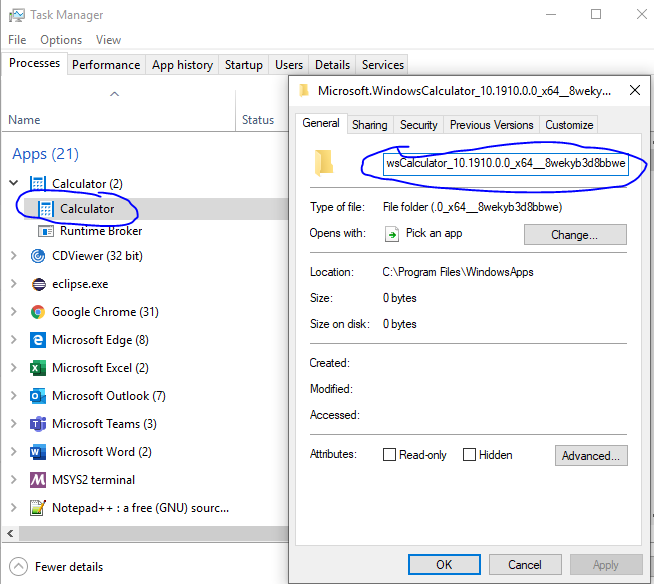
1. selenium latest version

2. appium-client which contain winAppDriver functions

3. junit or testng

4. guava (optional)

Screenshot Reference:



\*To get the app id we need to open the app, use task manager and right click on it and see properties and copy the id

\*Add !App at the end of the id and paste in above capability

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Now to get the locator we use inspect.exe which is a part of Window 10 sdk which we had downloaded in 1st steps

Now go to below location

C:\Program Files (x86)\Windows Kits\10\bin\10.0.18362.0\x64

This version (10.0.18362.0) can be different for you, just search inspect.exe in bin folder search bar and select .exe as per your system mother board like intel and version like x64

Read me (<https://github.com/sheetalsingh/WinAppDriver/blob/master/readme.txt>)

WinAppDriver is a open source tool to automate Window based application

Youtube Tutorial:

<https://www.youtube.com/watch?v=Q_HUkWczd34&list=PLEiBaBxmVLi9-Ioe2lys5xpR4S4fUOq7F>

#Basic Requirement:

Window 10 or above

Java 8 or above

Admin rights on system

Developer mode should be on | Settings > For developers

Java, Maven

Windows Kits | <https://developer.microsoft.com/en-us/windows/downloads/windows-10-sdk>

WinAppDriver | <https://github.com/Microsoft/WinAppDriver/releases>

#Steps:

1. Double click WinAppDriver.exe located at C:\Program Files (x86)\Windows Application Driver

2. Run the program e.g. CalculatorTest.java using TestNg

#How to find locators

Double click inspect.exe

Path:

C:\Program Files (x86)\Windows Kits\10\bin\10.0.16299.0\x64

C:\Program Files (x86)\Windows Kits\10\bin\10.0.16299.0\x86

#Todo:

1. How many locator strategies present - done

2. How to find locators - done

3. Right click - done

4. Screen-shot feature

5. Double click

6. How to find colors in an app

#Useful links:

<https://github.com/Microsoft/WinAppDriver/tree/master/Tests/UWPControls>

<https://github.com/Microsoft/WinAppDriver/tree/master/Tests/WebDriverAPI>

<https://github.com/Microsoft/WinAppDriver/issues/165>

<https://github.com/Microsoft/WinAppDriver/issues/240>

<https://github.com/Microsoft/WinAppDriver/issues>

window 10 sdk | <https://developer.microsoft.com/en-us/windows/downloads/windows-10-sdk>

#Others

C:\Users\Sheetal\_Singh\IdeaProjects\TestWin

<https://stopbyte.com/t/what-is-the-difference-between-winrt-uwp-universal-windows-platform-and-wpf/13/7>

#Locator mapping to methods

findElementByAccessibilityId AutomationId

findElementByName Name

findElementById RuntimeId (decimal)

findElementByClassName ClassName

findElementByTagName LocalizedControlType (upper camel case)

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***How to get the Id of window application app***

* Open Alarm clock app in window
* Perform control + alt + delete -> Task Manager -> Alarm Clock -> properties
* Now you will find the id as : **Microsoft.WindowsAlarms\_10.1910.3121.0\_x64\_\_8wekyb3d8bbwe**
* We do not put the id as is it we need to alter it like: **Microsoft.WindowsAlarms\_8wekyb3d8bbwe**

**Now this id we well pass in code, sample code:**

private static WindowsDriver driver = null;

DesiredCapabilities appCapabilities = **new** DesiredCapabilities();

appCapabilities.setCapability("app", "Microsoft.WindowsAlarms\_8wekyb3d8bbwe!App");

*driver* = **new** WindowsDriver<WindowsElement>(**new** URL("http://127.0.0.1:4723"), appCapabilities);

Few points

Actions won’t work to click or double click for me using winAppDriver