Window POP UP

What is window pop up?

- A window pop up is a pop-up which not belongs to any of the above pop up categories.
- If the popup displayed in application is not Hidden Division, Alert and confirmation, File upload, File Download and child Browser popup. Then it is called as Window Popup.

Characteristics of file download pop up

- We cannot inspect.
- We can move the pop up.

How to handle,

- Since, we can't able to inspect the window popup.
- Webdriver cannot identify the elements to perform the actions on the window pop up.

So, in order to handle window pop up, we can use the following ways,

1. Using AutoIT
2. Using profile class

Handling window pop up in Firefox browser:

Using AutoIT:

```python
from selenium import webdriver
import autoit

driver = webdriver.Firefox()
driver.implicitly_wait(30)
driver.get("http://docs.seleniumhq.org/")

driver.find_element_by_xpath("//a[text()='Download']").click()
driver.find_element_by_xpath("//a[contains(text(),'3.14.0')]").click()

autoit.win_wait_active("Opening selenium-server-standalone-3.14.0.jar")
autoit.send("{LEFT}")
autoit.send("{ENTER}")

driver.close()
```

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Using Firefox profile class:

- Here, we change the preference of the Firefox browser using the Firefox options class.
- Since, this window pop up is downloading the jar file. We need to mention the below key and value to the addPreference method of Firefox options class.

```
browser.helperApps.neverAsk.saveToDisk", "application/java-archive"
```

- The above preference change the browser setting to handle the window pop up.

Below is the script to handle the window pop up using the Firefox profile class

```python
from selenium import webdriver
from time import sleep

profile = webdriver.FirefoxProfile()
profile.set_preference("browser.helperApps.neverAsk.saveToDisk", "application/java-archive")
profile.set_preference("browser.download.folderList", 2)
profile.set_preference("browser.download.dir", "D:\\")

driver = webdriver.Firefox(profile)
driver.implicitly_wait(30)
driver.get("http://docs.seleniumhq.org/")

driver.find_element_by_xpath("//a[text()='Download']").click()
driver.find_element_by_xpath("//a[contains(text(),'3.14.0')]").click()

sleep(5)
driver.close()
```

Handling In Chrome Browser:

Step 1: Navigate to the following web site.

Step 2: Navigate to the following website,

https://docs.seleniumhq.org/download/

Click on the download link of JAVA.

Language	Client Version	Release Date			
Java	3.14.0	2018-08-02	Download	Change log	Javadoc

Step 3: Once after clicking on the download link, you will get the below download pop up.

Note: Now, this is the download pop up, which we need to handle.

To handle this, we have ways to handle it.

1. Using Chrome Options class

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Using Chrome Options Class.

- By changing the behavior of the browser, we can download the file and as well we can download the file to the specified directory.

Below is the code to download the file by changing chrome browser. And downloading the file to specified directory.

```python
from selenium import webdriver
from time import sleep

downloadFilepath = "D:/";
chromePref = {"profile.default_content_settings.popups": 0
              ,"download.default_directory": downloadFilepath
              ,"safebrowsing.enabled": True}

options = webdriver.ChromeOptions()
options.add_experimental_option("prefs", chromePref)

driver = webdriver.Chrome(chrome_options=options)
driver.get("https://docs.seleniumhq.org/download/")
driver.implicitly_wait(30)
driver.maximize_window()

download_link = driver.find_element_by_xpath("//a[text()='3.14.0']")
download_link.click()
sleep(5)

driver.close()
```

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