Window Handling – Working With Multiple Windows

Selenium WebDriver has a provision to switch from one frame to another or to switch from one browser window to another in any web application. The intent of this article is to learn how to switch over multiple windows. Each browser window has a unique window handle assigned to it. This handle is used by selenium to uniquely identify a window.

Many a times we open a page in a new window (or tab), or sometimes by clicking on a link or on a button a new window (or new tab) opens up. The control of Selenium doesn’t automatically switches to this new window (or new tab), but we have to switch to perform any operation on this new window.

To uniquely identify an opened browser Selenium WebDriver keeps a map of Opened windows VS Window Handle. Window handle is a unique string value that uniquely identifies a Browser window on desktop. It is guaranteed that each browser will have a unique window handle. To get Window handle WebDriver interface provides two methods ***– CurrentWindowHandle()*** ***– getWindowHandles()***

***CurrentWindowHandle ()***method return a string value and it returns the Window handle of current focused browser window. ***getWindowHandles()*** method returns a set of all Window handles of all the browsers that were opened in the session. In this case it will return 4 windows handles because we have 4 windows open. Here is the code to print out window handles on console of eclipse.

*# Window handling*parent\_handle = driver.current\_window\_handle  
handles = driver.window\_handles  
print(len(handles))  
**for** h **in** handles:  
 **if** h != parent\_handle:  
 driver.switch\_to.window(h)  
 print(driver.title)  
 print(driver.current\_url)

driver.close()  
 **break**driver.switch\_to.window(parent\_handle)  
print(driver.current\_url)

