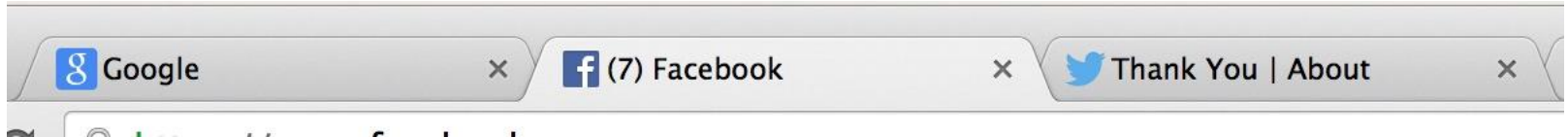# What is a window?

Each browser or the tab is called window

No tab concept in WebDriver (Everything is a window)

Google, Facebook and Twitter is a Tab

How to move to specific window?

To move to a specific window, we need to know something unique about the window

- Title / URL of two windows will be same

Web driver uses unique identifier called to handle each window

Using that window handle, we can move to specific window

How does Selenium moves?

Selenium webdriver moves to a specific window using the window handle

Syntax to move

driver.switchTo().window(winHandle);

How to know the window handle?

How to find window handle?

We cannot find the window handle directly

So, use getWindowHandles() method to find all the windows opened by Selenium webdriver now

driver.getWindowHandles();

Note: Webdriver cannot communicate with manually opened or previously opened browsers.

GetWindowHandles

java.util.Set<java.lang.String> getWindowHandles()

Return a set of window handles which can be used to iterate over all open windows of this WebDriver instance by passing them

Returns:

A set of window handles which can be used to iterate over all open windows.

Set<String> wHandles = driver.getWindowHandles();

Set vs List

Features	Set	List
What it is?	Collection with no duplicates and unordered	Ordered Collection and can allow duplicates
Example	getWindowHandles() returns unique unordered collection (Set)	findElements() returns ordered collection (List)
Null	Only one Null allowed	Multi Null allowed (as duplicated allowed)

For each in Java

Syntax:

for (type item: iterableCollection)
{   *// every time, the loop iterates -> the next item in the collection*
is   accessible
}

Set<String> winHandles = driver.getWindowHandles();

for (String winHandle : winHandles){
        // winHandle will have the handle of each browser in sequence
}

Sample Code

String parentHandle = driver.getWindowHandle(); // get the current window handle

for (String winHandle : driver.getWindowHandles()) {
    driver.switchTo().window(winHandle); // switch focus of WebDriver to the next found window handle (that's newly opened window)
}

driver.switchTo().window(parentHandle); // switch back to the original window

Close vs Quit

Close() – closes the browser or page currently which is having the focus.

Quit() – shut down the web driver instance or destroy the web driver instance (Close all the windows)

Recap

What is a window?

How Selenium identifies a window?

Syntax to move to a window

Set vs List

Close vs Quit

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