

HTML Popup / Hidden division popup

These popups are developed using HTML code, hence no need of switch statement, a normal selenium script using findElement method will work properly.

Handling Window:-

1) While working in real time applⁿ, if you perform any operation & that results to launch a new window then web driver cannot perform the operation on the new window because it still has a control the main window or home window.

2) In order to make web driver to switch to child window or a new window & perform the required operation then first we need to uniquely identify the browser windows by using foll. methods of web driver -

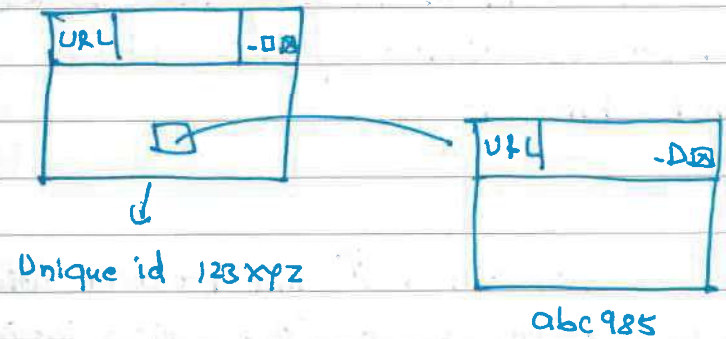
1) getWindowHandle -

It will return the unique id of the window in which web driver currently has focus & returns its unique id in form of string.

2) getWindowHandles -

This method will return all the unique id's of browser windows which are opened by browser in form of set<String>

^{Why} Q. ^ Get windowHandles method returns set<string>?



In order to access the unique ids present in Set of a String, we should access its iterator first which will return (iterator of string type) iterator<String>. Then we can use next() of iterator interface to access each window unique id.

Note: By default first id always belongs to parent window.


```

set<String> allWinId = driver.getWindowHandles();
Iterator<String> itr = allWinId.iterator();
String homeWinId = itr.next();
String twitterWinId = itr.next();

```

After getting the unique id of child browser window, we should make web driver to switch to child browser window by using below mentioned statement,

```
driver.switchTo().window(twitterWinId);
```

Now the control will be in child browser window & we can perform any required action inside this window.

If we want to close the child browser window then we should write below code,

```
driver.close();
```

Once you close the child browser window, the control will not switch back to main browser window automatically. In order to do that, we need to write below statement,

```
driver.switchTo().window(homeWinId);
```

Now the control will be main browser window & we can any required operation on this window

If you want to close all the browser instances opened by web driver without switching there, then you can write,

```
driver.quit();
```

Q. How to close all the browsers without switching to each browser.

Q. What is the diff betⁿ `driver.close()` & `driver.quit()`.

Q. Write a selenium script to open `etrin.info` applⁿ, click on twitter button, get the content available in 'Share a link with your followers' (get text). Then close this window & get the text "Register" from the main window. & close the browser.

```

→ public class WindowHandling {
    p.s.v.m (String[] args) {

```

```

        System.setProperty("webdriver.chrome.
        driver", "path\\chromedriver.exe");

```

```
WebDriver driver = new ChromeDriver ();
driver.manage().window().maximize();
driver.get("https://etrain.info/in");
```

/* get home window unique id */

```
String homeWinId = driver.getWindowHandle();
```

/* switch to frame as twitter link present inside frame */

```
driver.switchTo().frame(driver.findElement(
    By.id("twitter-widget-0")));
```

/* identify & click on twitter button */

```
driver.findElement(By.xpath("//span[text()='Tweet']")).click();
```

/* get the unique id's of all the windows opened by webdriver */

```
Set<String> allWinID = driver.getWindowHandles();
```

/* Remove home window id, to get twitter window id */

```
allWinID.remove(homeWinId);
```

/* declare a string variable to store child window id */

```
String twitterWinId = null;
```

```
if (allWinID.size() == 1) {
```

/* get the child window id & store in twitter winId variable */

```
twitterWinId = allWinID.iterator().next();
}
```

```
else {
```

```
s.o.p("No window found");
```

```
}
```

/* take a control to twitter window */

```
driver.switchTo().window(twitterWinId);
```

```
driver.manage().window().maximize();
```

```
String sharedLink = driver.findElement(By.id(
    "Status")).getText();
```

```
S.o.p(sharedLink);
```

/* if you want to close both the windows i.e. home win & child win */

```
// driver.quit();
```

/* close only child window */

```
driver.close();
```



```
/* Switch back to home window */
driver.switchTo().window(HomeWindow);
S.o.p (Driver.getText());
S.o.p (driver.findElement(By.xpath("//a[text()
='Register']")).getText());
```

```
/* close the window */
driver.close();
}
```

Note:—

While Working with real time applⁿ, if you click on any element of an applⁿ & if it opens a new tab on the new browser then webdriver will consider that tab as a new window.

In such cases you can use same concept as you have used to handle child browser window.

Q. Write a script to open eTrain info & click on book journey rules link (which is present under indian railway rules or information section).

In that page click on 'National train inquiry system' link. Enter train number & get all the station names & come back to previous page

get the information displayed in 'note' section then come back to Home page & enter PNR number & click on get button.
close the verification popup & close the main window.

Q. Write a script for paytm login.