**- where is the default focus.**

**- how to bring the focus on frame (three ways)**

**- there is only one frame in web page, then how to switch in between.**

**- invoke javascript function rather than clicking the button.**

**- embed javascript on web element**

**- take screen shot by date&time stamp.**

**- How to extract the elements which are on second window.**

**Frames.**

1. if you are trying to access elements from iframe, u will face an issue, as elements are not drawn on the main window

2. if you have focus on iframe, then only u can access the elements. By default, the focus is on the main window.

3. use below code, to bring the first focus on the iframe window, after then only u can access the elements

driver.switchTo().frame(<frameid>)

4. if u want to access element belongs to main window, or u want to know the number of frames, u will have move your focus on the main window

when main window having frames use = driver.switch().defaultcontent

when main window having frames and popup or popup only, then first get windows ids by getWindowHandles method after then use driver.switch().window() method along with passing window id.

**JavascriptExecutor**

//instead of click on above mentioned button

//we can call the java script function, which is called internally, when we click on button

//we can embed own javascript to highlight the button

//how?

WebElement button = driver.findElement(By.*xpath*("/html/body/button"));

((JavascriptExecutor)driver).executeScript("myFunction()");

JavascriptExecutor js = (JavascriptExecutor)driver;

js.executeScript("arguments[0].style.border= 'solid 5px red'", button);

**Take Screen Shots**

Date d1 = **new** Date();

String filename = d1.toString().replace(":", "\_").replace(" ", "\_") + ".jpg";

TakesScreenshot tss = (TakesScreenshot) driver;

File fss = tss.getScreenshotAs(OutputType.***FILE***);

FileUtils.*copyFile*(fss, **new** File("./screenshot/" + filename));

**Profile**

There is no option "profiling" in IE but present in chrome and it does not work as work in firefox

**When new firefox profile is created.**

Whenever we execute code, a new firefox profile is created and code is executed on that. This new firefox profile does not have any plugin like firebug, firepath etc and this does not have any history as well.

**What is default profile**

When we click on firefox icon, a browser is opened, that is using default profile. This has history as well as plugins that we have installed.

**How to get to know the name of default profile / create new profile / launch firefox with some other profile.**

firefox.exe -profilemanager **(This command will bring up window, and u get the name of firefox profile, by default the name is "default").**

**Scenario**

Sometimes, there is website like firstcry, when u open site veryfirst time in browser, it brings up login screen in popup window and later on if u open same web site in separate window, then login screen will not appeared in popup window, after then it will come up only on click on login button.

In this case, to automate such login screen, we will go with default profile

Let's say we are not able to enter login id (Means login screen is in popup), it means login screen is in IFrame. To get to know about this bring up site and then bring up login screen and right click and u will find option "This Frame", it means this screen UI is written in Iframe.

**In this case to automate such login screen**

1. launch firefox in default profile mode.
2. switch to frame by passing id of frame (This will get by looking into "view page source" of web site and search frame (hit and try) u must get frame)
3. access login textbox and enter login information

**How to get the code executed on default or someother profile.**

***ProfilesIni listProfile = new ProfilesIni();***

***FirefoxProfile profile = listProfile.getProfile("default");***

***WebDriver driver = new FirefoxDriver(profile);***

**How many frames we have on particular web site (If u will count after switching frame, then count will be zero)**

***ProfilesIni listProfile = new ProfilesIni();***

***FirefoxProfile profile = listProfile.getProfile("default");***

***WebDriver driver = new FirefoxDriver(profile);***

***driver.navigate().to("http://www.firstcry.com/");***

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

***driver.manage().timeouts().implicitlyWait(10L, TimeUnit.SECONDS);***

***driver.findElement(By.xpath("html/body/div[5]/div[1]/div/div[2]/span[6]")).click();***

***//<iframe -- assignment***

***driver.switchTo().frame("iframe\_Login");***

***driver.findElement(By.xpath("//\*[@id='txtLUNm']")).sendKeys("rajanitclasses@gmail.com");***

***driver.switchTo().defaultContent();***

***List<WebElement> frames = driver.findElements(By.tagName("iframe"));***

***//how many frames are there?***

***System.out.println("Total frames are : "+frames.size());***

***for(WebElement frame: frames){***

***System.out.println(frame.getAttribute("id"));***

***}***

***//driver.switchTo().window(nameOrHandle)***

**How to switch back to the main window from frame.**

***driver.switchTo().defaultContent();***