**Popups:**

* Popups are small or separate window which will be displayed when we perform action on any components present in a webpage.
* These popus can be handled by selenium directly~~, but sometimes we may need to use 3rd (Auto IT) party tools to handle these popups.~~

**Types of popups:**

\*1. Hidden-Division Popup

\*2. Alert popup

\*3. Child browser Popup

4. Authentication Popup

5. File Upload Popup

6. File Download Popup

* If we are able to inspect element present in a popup then we can use selenium directly to handle that popup.
* If we are unable to inspect element present in a popup then we need to use 3rd party tool to handle that popup.

**1. Hidden-Division Popup:**

1. These popups are colorful.
2. We can inspect the elements present in pop up.
3. As we can inspect element present in popup then using selenium we can handle it & no need to switch.

4. URL: <https://www.makemytrip.com/>

eg. popup on makemytrip

hidden div eg🡪

package popUp;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class HiddenDivTest

{

public static void main(String[] args) throws InterruptedException

{

WebDriver driver = new ChromeDriver();

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

driver.get("https://www.makemytrip.com/");

Thread.sleep(4000);

//handle hidden div popup

driver.findElement(By.xpath("//span[@class='commonModal\_\_close']")).click();

Thread.sleep(1000);

driver.findElement(By.xpath("(//span[text()='Hotels'])[1]")).click();

}

}

**2. Alert Popup:**

1. We cannot inspect the elements present in pop up, does not have any colors

2. These popups will contain **ok** button or **cancel** button & **Text**.

3. Sometimes this type of popup also contains”?” or “**!”** symbol.

4. url: <https://demoqa.com/alerts>

<https://chercher.tech/practice/practice-pop-ups-selenium-webdriver>

<https://demo.guru99.com/test/delete_customer.php>

Exceptions: UnhandledAlertException🡪

**If we not handled alert popup and tried to take next action.**

NoAlertPresentException🡪 If there is no alert in flow and you trying to handle the alert

**Procedure to handle Alert popup**

1. To handle alert popup we need to switch selenium focus from main page to alert popup by using syntax

Alert alt = driver.switchTo().alert();

1. Alert is an interface which contains abstract methods like:

1. accept(): use to click on ok button.

2. dismiss(): use to click on cancel button.

3. getText(): use to get text present in an alert popup.

To click on OK button🡪 alt.accept();

To click on Cancel button🡪 alt.dismiss();

To get the text present in a webpage🡪 String text = alt.getText();

Alert example🡪

**package** Popupstudy;

**import** org.openqa.selenium.Alert;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.chrome.ChromeDriver;

**public** **class** AlertPopup {

**public** **static** **void** main(String[] args) **throws** InterruptedException {

System.*setProperty*("webdriver.chrome.driver", "F:\\Velocity\\May-2021 Class\\test2\\chromedriver\_win32 (1)\\chromedriver.exe");

WebDriver driver= **new** ChromeDriver();

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

driver.get("https://www.seleniumeasy.com/test/javascript-alert-box-demo.html");

Thread.*sleep*(1000);

driver.findElement(By.*xpath*("(//button[text()='Click me!'])[1]")).click();

Thread.*sleep*(3000);

Alert alt = driver.switchTo().alert();

System.***out***.println(alt.getText());

Thread.*sleep*(3000);

alt.accept();

Thread.*sleep*(1000);

driver.findElement(By.*xpath*("//a[text()='All Examples']")).click();

}

}

**3. Child browser Popup/window popup**

1.We can inspect elements present in popup.

2.This popup will contain address field(url),maximize,minimize and close options.

3.URL: <https://skpatro.github.io/demo/links/>

**Procedure to handle Child browser popup**

1. To handle Child browser popup we need to switch selenium focus from main page to Child browser popup by using syntax

* driver.switchTo().window("String windowId")

1. To get ID of main page we need to use syntax

String IdOfMainPage=driver.getWindowHandle(); //return type of getWindowHandle method is String

1. To get address of main page as well child browser we need to use synatx

set<String> IdOfAllpages=driver.getWindowHandles();

//return type of getWindowHandles method is set<String>

1. To get address of child browser we need to use synatx

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

ArrayList al=new ArrayList(ids);

System.out.println(al.get(0)); // address of main page

System.out.println(al.get(1)); // address of child1 browse

org.openqa.selenium.NoSuchWindowException🡪 we we have not switched to window and tried some actions

Child Browser eg🡪

**package** Popupstudy;

**import** java.util.Iterator;

**import** java.util.Set;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.chrome.ChromeDriver;

**public** **class** ChildBrowser {

**public** **static** **void** main(String[] args) **throws** InterruptedException {

System.*setProperty*("webdriver.chrome.driver", "F:\\Velocity\\May-2021 Class\\test2\\chromedriver\_win32 (1)\\chromedriver.exe");

WebDriver driver= **new** ChromeDriver();

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

driver.get("https://skpatro.github.io/demo/links/");

Thread.*sleep*(1000);

driver.findElement(By.*name*("NewWindow")).click();

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

System.***out***.println(AllWindows);

Iterator<String> it=AllWindows.iterator();

String mainpage = it.next();

String child = it.next();

Thread.*sleep*(1000);

driver.switchTo().window(child);

Thread.*sleep*(1000);

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

Thread.*sleep*(1000);

driver.findElement(By.*xpath*("//input[@id='the7-search']")).sendKeys("Pop Up ex");

driver.close();

driver.switchTo().window(mainpage);

Thread.*sleep*(1000);

driver.findElement(By.*name*("home")).click();

driver.close();

//driver.switchTo().window(al.get(2))

}

}

**4. Authentication Popup--autoIT tool / Robot class**

1. Pop up displayed on Page load
2. We cannot inspect the elements present in pop up.
3. We can move the pop up(Except chrome & edge)
4. How to handle <https://username:password@URL>
5. To handle the basic authentication popup, you can pass the username and password along with the web page’s URL.

example🡪

username: admin

password: admin

url:<https://the-internet.herokuapp.com/basic_auth>

**5. File upload🡪 AutoIT tool/ Robot class**

<https://blueimp.github.io/jQuery-File-Upload/>

1. Find the upload button, store in reference variable
2. Reference variable .sendKeys(“filePath”)

**6. File download🡪 AutoIT tool/ Robot classs**