 Pop-up is one of the small or separate window which will display when we perform actions on any component present in web page.

 Type:

1. Hidden division pop-up

2. Alert pop-up

3. Child browser pop-up

4. Authentication pop-up -> Auto IT/ Robot class

5. File upload -> Auto IT/ Robot class

6. File download -> Auto IT/ Robot class

There pop-can be handeled by selenium directly, but sometimes we need to use third party tool.

-IF we are able to inspect element present in a pop-up then we can pop-up by using selenium directly.

-If we are not able to inspect the element present in pop-up then we have to use third party tool to handle such pop-up

1. Hidden division pop-up:

Properties:

1. These pop-ups are color full

2. We can inspect element present ins such pop-up

3. We cannot perform drag and drop operation.

2. Alert – pop:

Properties:

1. WE cannot inspect element present in this pop-up.

2. We can drag and drop this pop-up (some pop cannot be drag and drop)

-These pop-up will contains Button like OK and cancel and Text also.

-This pop-up also contains Question mark (?) or Exclamarty symbol (!)

 To handel alert pop-up first we need to focus selenium from main page to alert pop-up

 driver.switchTo().alert();

 Alert is an interface which contains abstract method like.

 1. accept():- is use to click on Ok button

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

 3. gettext():- use to get alert message in pop-up

Ex:

package popup;

import org.openqa.selenium.Alert;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import configuration.PathConfiguration;

public class AlertPopUp {

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

System.setProperty("webdriver.chrome.driver", PathConfiguration.driverPath);

WebDriver driver = new ChromeDriver();

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

driver.get("http://demo.guru99.com/test/delete\_customer.php");

driver.findElement(By.xpath("//input[@name='cusid']")).sendKeys("123456");

driver.findElement(By.xpath("//input[@name='submit']")).click();

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

Thread.sleep(1000);

//alt.accept();

//alt.dismiss();

String txt = alt.getText();

System.out.println(txt);

}

Child Browser pop-up:

To handle such pop-up we need to switch selenium focus from main page to child browser pop-up.

This switch from main page to child page is done by using below syntax:

Driver.switchTo.window(“String of window”)

Properties:

1. We can inspect the element present in pop-up

2. We can drag and drop

3. Such pop-up will contains address field, maximize, minimize button, close option.

getWindowHandle() getWindowHandles()

This return address of main page only This return address of main and child pages

Return type is String Return type is set of string

-If multiple child browser are displayed then to handle child browser popup we need to identify address field or id of that window.

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

Ex:

package popup;

import java.util.Iterator;

import java.util.Set;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import configuration.PathConfiguration;

public class ChildPopUP {

public static void main(String[] args) {

System.setProperty("webdriver.chrome.driver", PathConfiguration.driverPath);

WebDriver driver = new ChromeDriver();

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

driver.get("https://demoqa.com/browser-windows");

driver.findElement(By.xpath("//button[@id='windowButton']")).click();

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

System.out.println(ids.size());

System.out.println(ids);

System.out.println("-----Reading value of set using iterator------");

Iterator<String> itr = ids.iterator();

while(itr.hasNext()) {

String mainWindow = itr.next();

String childWindow = itr.next();

driver.switchTo().window(childWindow);

}

System.out.println("Title: "+driver.getTitle());

}

}

java.util.NoSuchElementException: When we try to interate next value after set reaches its highest value