Pop Ups in Selenium

Pop-Ups in Selenium

In HTML pages, we have different kinds of pop-ups; we will discuss them in this tutorial. Different popups will have different properties.

Types of Pop-Ups :

Alert Pop Up

Confirmation Pop Up

Authentication Pop Up

Hidden-Division Pop Up

Calendar Pop Up

Download Pop UP

Upload Pop Up

We have a different section for Alert and Confirmation Pop-Ups, so in this page, we are going to discuss how to handle remaining Pop-Ups in **selenium**

Reading QR Code from the website using Webdriver

Authentication Pop Up handling in selenium

When we open password-protected pages, we tend to get Authentication pop up. Authentication pop up will have username and password fields, the UI look of the pop up may vary browser to browser
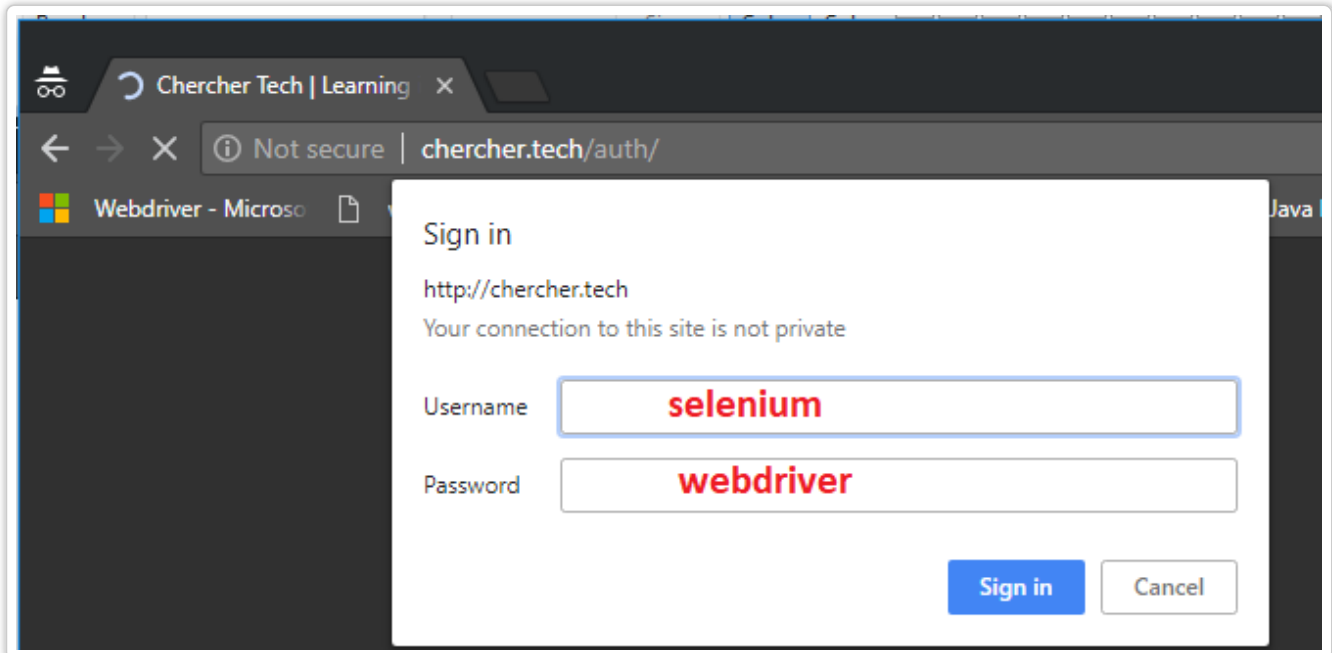
Visit URL selenium webdriver Auth : https://chercher.tech/auth, the site expects you to provide credentials.

Credentials :

username - selenium

password - webdriver

Authentication Popup :

Properties of the Authentication Pop up :

Pop up displayed on Page load

We can move the pop up (except in chrome)

We cannot inspect the pop up with browser inspection tools like (TryXpath or chrome dev tools)

The look varies from browser to browser

The Solution to Authentication Pop Up : We have to pass the user name and password along with the URL to handle the authentication pop in **webdriver**. Please find the syntax to pass the username and password

```
driver.get(protocol://Usename:Password@URL Address);
```

Protocols: Http, Https, Ftp.

To access the https://chercher.tech/auth page, you need to pass username and password like below.

```
driver.get(https://selenium:webdriver@chercher.tech/auth);
```

Complete program to handle Authentication popup

```java
import java.util.concurrent.TimeUnit;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;

public class AuthenticationPopUp {
    public static void main(String[] args) throws Exception {
        // set the geckodriver.exe property
        System.setProperty("webdriver.gecko.driver", "C:/~/geckodriver.exe");
        // open firefox
        WebDriver driver = new FirefoxDriver();
        driver.manage().timeouts().implicitlyWait(1, TimeUnit.MINUTES);
        // open webpage
        driver.get("https://selenium:webdriver@chercher.tech/auth");
        // verify the title
        if(driver.getTitle().equals("Authentication Successful")){
            System.out.println("Test Passed");
        }else{
            System.out.println("Test failed");
        }
    }
}
```

If login is successful, you will see the below page on the browser.

Welcome To Secect Page

Your authentication test is successful...!

Navigate back to selenium webdriver

Limitations:

Does not work for the https protocol

It does not work when username or password contains special characters like : '@' , ':'

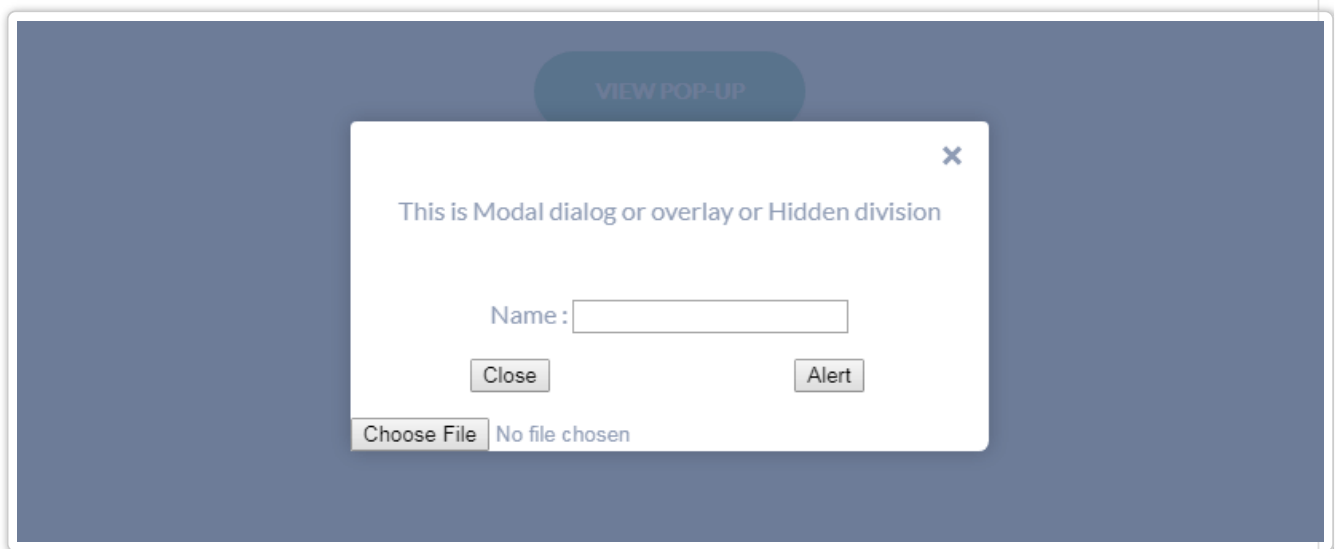**Handling Custom Dropdowns in selenium**

Hidden division Pop Up with Selenium

Hidden division pop is nothing but HTML code which is hidden initially, hidden division pop up also known as dialog or overlay.

The overlay is triggered when an application user performs specific tasks like clicking a button, submitting a form, or on page load...

Examples :
Calender Popups
Contact forms
Error and success Messages

Properties of Hidden division Pop up :

Cannot be moved here and there

We can inspect the overlay

This is not javaScript popup

We can resize and customize the content of the pop-up

If the content is more then the pop-up size, pop shows scroll bar

When hidden division pop is opened, pop takes the focus from the application.

When pop up is closed, focus automatically goes to the application

Hidden division popup could be nested, i.e. a hidden division pop can have another hidden division pop up

Hidden division pop can hold other pop-ups/ alerts on it.

Xpath in Selenium

Handle Hidden division Pop Up :

1. Navigate to : **https://chercher.tech/practice/hidden-division-popup**

2. **Click** on View Pop-Up button

3. Application opens a Model

4. Write **xpath** for the Name text bar : //input[@type='text']

5. Send text for the Name, using **sendKeys in selenium**.

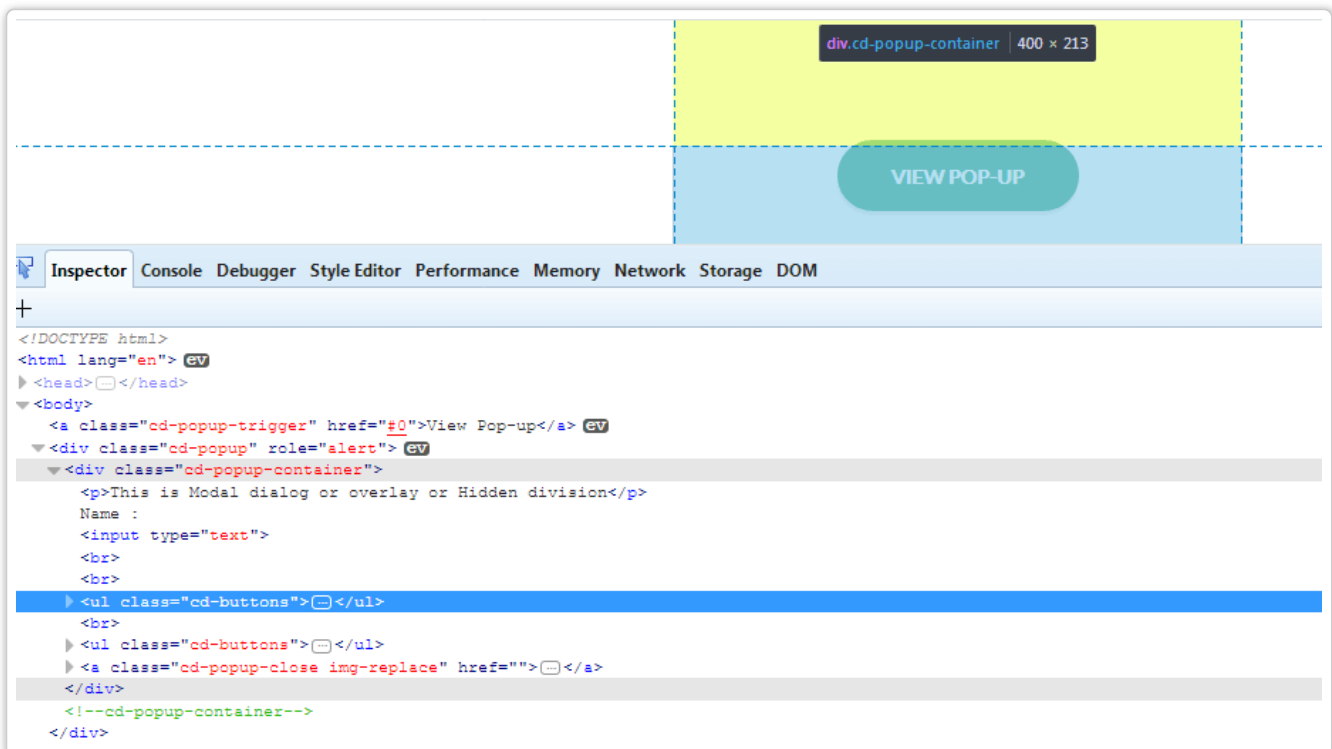6. No Special Operation required to handle hidden division popup.

Complete program for handling hidden division pop up in selenium

```java
public class HiddenDivisionPopUp {
  public static void main(String[] args) throws Exception {
    // set the geckodriver.exe property
    System.setProperty("webdriver.gecko.driver", "C:/~/geckodriver.exe");
    // open firefox
    WebDriver driver = new FirefoxDriver();

    driver.manage().timeouts().implicitlyWait(1, TimeUnit.MINUTES);
```

```
  // open webpage
  driver.get("https://chercher.tech/practice/hidden-division-popup");
  driver.findElement(By.className("cd-popup-trigger")).click()
  // send text to Name field on overlay
  driver.findElement(By.xpath("//input[@type='text']")).sendKeys("Hidden Division Text");
   }
}
```

Even though pop up content is present but pop is not present on UI until we *click* a button, for this reason, it is called as hidden division popup.

Limitations:

We cannot perform an operation on the webpage until we close the pop up if we try to access selenium throws *ElementNotClickable exception*

Capture Screenshots in webdriver

Recommended Readings

iFrames / Frames in Selenium

Multiple Windows Handling in Selenium

Take Screenshot in selenium | Element Screenshot | Store PDF | Highlight

Cookies in Selenium Webdriver [Latest]

Compare Dropdown values in selenium

Dropdown values are sorted or not in selenium ?

JavaScriptExecutor in Selenium

Custom WebElements in Selenium