

# Popups & Alerts



In Selenium, there are different kinds of pop-ups which will behave in different ways. To handle these types of pop-ups, it's completely depends on the properties of the pop-ups. We have following types of pop-ups.

- Browser Based pop-ups.
  - Alert pop-up or Confirmation pop-up.
  - Hidden Division pop-up or Calender pop-up.
  - Child Browser Pop-up.
  - Download pop-up.
  - Upload pop-up.
- Window Based Pop-ups.

### Alert Pop-up

- We can't work in main web page while alert is ON. Whenever we are working with alert pop-up, the control of the browser will be behind the pop-up. In order to switch the control to alert, we use command **`driver.switchTo().alert();`**
- The return type of **`alert()`** method is Alert. In order to fetch the text from the pop-up, we use **`getText()`** method. In order to click on OK button, we use **`accept()`** method.

## Characteristic of Alert popups

- We can not work in main page while alert is ON.
- It can not be moved.
- It can not be instructed.
- The alert pop will have only OK button.

**Note :** In alert pop-up when we switch the control from web page to alert pop-up, as soon as OK button is clicked, the control is transferred back to web page automatically.

## Hidden Division Pop-up or calendar Pop-up

Calendar pop-up is a type of Hidden Division Pop-up. Since this pop-up is a part of HTML page, we can use `findElement()` method to handle it.

## Child Browser Pop-up

- In selenium WebDriver, in order to handle or work with the child browser, the first step you need to do is switch control of the browser from parent window to the child window. At present the control will be on current window so to perform any operation on the child window you need to use the **`SwitchTo().window(String);`** command to switch control of the browser to the child window.

- In above command, ***window()*** method takes an argument of type String which means we have to pass the unique id of the browser which is opened by WebDriver. In order to get current browser unique id, we use ***getWindowHandle()*** method.
- In order to get unique ids of all the browsers which is opened by WebDriver, we use ***getWindowHandles()*** method which returns Set<String>.
- If the pop-up displayed in application is not hidden division, alert and confirmation and child browser, then it is called as window based pop-up. In selenium we can't handle window pop-up. To handle this we use a third party tool called ***AutoIT***.