

Selenium Alert & Popup Window Handling

Popup :-

Small window which display on my webpage with some information when we perform operation on web element.

Types of popup -

Selenium support

1. Alert popup
2. window popup

Selenium don't support >> Need to use third party plugins like AutoIT, ATIOS

3. file upload
4. file download
5. authentication popup

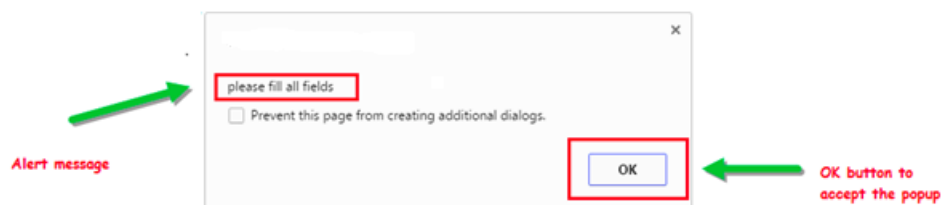
- What is Alert?
- How to handle Alert in Selenium WebDriver
- How to handle Selenium Popup window using Webdriver

What is Alert?

- An **Alert** is a small message box which appears on screen to give the user some information or notification.
- It notifies the user with some specific information or error, asks for permission to perform certain tasks and it also provides warning messages as well.
- We cannot drag and drop and contains symbol or ?
- To handle this popup we need to change focus of selenium from main page to alert window popup

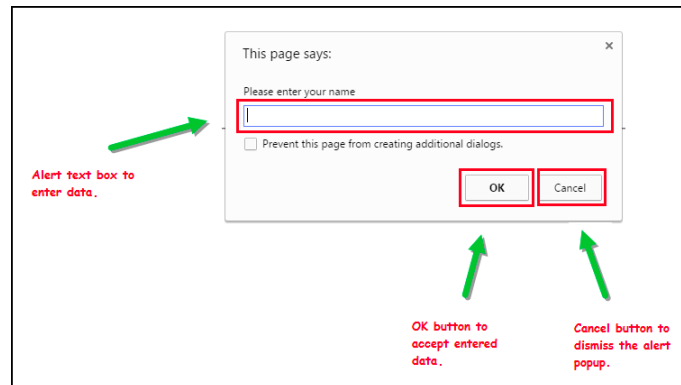
1. Simple Alert

The simple alert class in Selenium displays some information or warning on the screen.



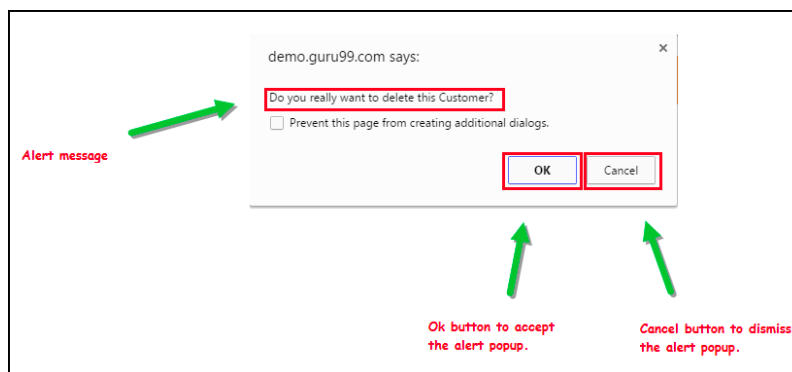
2. Prompt Alert.

This Prompt Alert asks some input from the user and Selenium webdriver can enter the text using `sendKeys("input....")`.



3. Confirmation Alert.

This confirmation alert asks permission to do some type of operation.



How to handle Alert in Selenium WebDriver

Alert is an interface which provides the few methods and help us to perform operation on popup.

1. **void dismiss()** // To click on the 'Cancel' button of the alert.
`driver.switchTo().alert().dismiss();`
2. **void accept()** // To click on the 'OK' button of the alert.
`driver.switchTo().alert().accept();`
3. **String getText()** // To capture the alert message.
`driver.switchTo().alert().getText();`
4. **void sendKeys(String stringToSend)** // To send some data to alert box.
`driver.switchTo().alert().sendKeys("Text");`

How to handle Selenium Pop-up window using Webdriver

What is a window in Selenium?

- A window in any browser is the main webpage on which the user is landed after hitting a link/URL./WebElement.
- Such a window in Selenium is referred to as the parent window also known as the main window
- In automation, when we have multiple windows in any web application, the activity may need to switch control among several windows from one to other in order to complete the operation.
- After completion of the operation, it has to return to the main window i.e. parent window in Selenium.

How do we identify parent window and child windows?

- When a user hits a URL, a webpage opens. This main page is the parent window i.e the main window on which the user has currently landed
- All the windows which will open inside your main window will be termed as child windows.

Methods to handle windows

- To handle window popup we need to change focus of selenium from main page to window popup for that we required ID of window.
`driver.switchTo().window(ID);`
- we need to use following method

1. **Driver.getWindowHandle();**

When the site opens, we need to handle the main window by `driver.getWindowHandle()`. This will handle the current window that uniquely identifies it within this driver instance. Its return type is String.

2. **Driver.getWindowHandles();**

To handle all opened windows by web driver, we can use `driver.getWindowHandles()`, and then we can switch window from one window to another in a web application. Its return type is `Iterator<String>`.

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