Is Displayed / Is Enabled

Introduction

Hello and Welcome, In this video, we are going to test for a displayed and enabled element. There are times, when Selenium has to wait until an element is available before performing an action. Other times, the element is available but it is disabled until another action is carried out. That's the scenario with the following Test Script. The Delete button is disabled although it looks enabled.

We must click a checkbox before clicking the Delete button. We are going to test the Delete button before clicking the checkbox and after clicking the checkbox. Inspect the Delete button. The value for id is btnDelete. Copy the value.

Demo

Go to Eclipse. I already have the scripts to set up, tear down, load the AUT, sign into the application, and click the Admin tab. Now we write driver.findElement(By.*id*("btnDelete")) and assign it to WebElement buttonDelete.

Is the Delete button displayed? buttonDelete.is You see the description shows Is this element displayed or not and returns Whether or not the element is displayed. Do you also see how the Data Type is boolean? That means it will return true or false. True is Yes and False is No. isEnabled checks if the element currently enabled or not. Returns True if the element is enabled.

Let's select isDisplayed and assign it to a boolean called isDeleteButtonDisplayed. Next, is the Delete Button Enabled? boolean isDeleteButtonEnabled = buttonDelete.isEnabled();

Let's print the answers. sysout. Before Click – Is Delete Button Displayed And Enabled, skip a line, tab. Displayed equals isDeleteButtonDisplayed, skip a line, tab. Enabled equals isDeleteButtonEnabled, skip a line.

Let's Run. Before Click – Is The Delete Button Displayed And Enabled? It is displayed but not enabled. Let's go to the AUT so we can inspect the checkbox.

According to the Selenium Locator rankings, we should use the id value located in the input tag but let's find the checkbox using the text() function and XPath Axes. Inspect the Username and it's located in the a tag so we write: 2 forward slashes, a, 2 brackets, text, parenthesis, equal, 2 single quotes, fiona.grace. Bingo. The checkbox is located in the input tag preceding the username. slash, preceding, 2 colons, input, 2 brackets, 1. Copy the value. Go back to Eclipse.

driver.findElement(By.*xpath*("//a[text()='fiona.grace']/preceding::input[1]")).click(); We must check if the Delete button is displayed and enabled again. If we don't check the Delete button, our Test Script will maintain the same true – false values that was returned before clicking the checkbox. Therefore,

let's copy isDeleteButtonDisplayed and isDeleteButtonEnabled and also, the print statements. Change Before to After and Run. We see Before Click shows Displayed is true and Enabled is false. After Click shows Displayed and Enabled both as true. That's it for testing for displayed and enabled elements.