Tutorial: Selenium Automation

Using Selenium WebDriver to test elements on Chrome Login Page

This tutorial would help you to login into your eLearn Account using Selenium WebDriver using googlechrome Browser. The code discussed in this tutorial can be easily extended to design test cases to test the various UI elements of the webpage.

**Step 1:** Create a new Java Project using Eclipse IDE.

(Tested with Eclipse Standard/SDK, Version: Kepler Release)

**Step 2:** Create a new Package inside it named testingPackage.

**Step 3:** Create a new class in the testingPackage package, named SeleniumTestingDemo.

Copy the code written below: [or use SeleniumTestingClass.java]

package testingPackage;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.By;

public class SeleniumTestingDemo {

public static void main(String[] args) {

System.setProperty("webdriver.chrome.driver","D:\\chromedriver.exe");

WebDriver driver= new ChromeDriver();

driver.get("https://idp.bits-pilani.ac.in/idp/Authn/UserPassword");

WebElement emailElement = driver.findElement(By.id("username"));

emailElement.sendKeys("reddy.rani@pilani.bits-pilani.ac.in");

WebElement passwordElement = driver.findElement(By.id("password"));

passwordElement.s endKeys("XXXX");

WebElement loginElement = driver.findElement(By.id("submitbtn"));

loginElement.click();

System.exit(0);

}

}

# Important:

* **Download 1:**

Download the following jar files:

* 1. **selenium-server-standalone-3.6.0.jar**

(Link: <http://www.seleniumhq.org/download/)>

* 1. **client-combined-3.6.0.jar**

(Link: <http://www.seleniumhq.org/download/)>

Add them to your project and add them to the Build Path of the project.

* **Download 2:**

For interfacing with chrome browser, you need to download the following filewith matching chrome version and place it on your system:

1. **chromedriver.exe**

[Modify the path for this file accordingly in your code]

Tip:

Follow these steps in your Eclipse:

* 1. **Delete** module.info java under project folder
  2. Right click on your java project and select **Build Path** -> Click on

**Configure Build Path...**

* 1. In project properties window, Click **Java Compiler** at the left panel, at the right panel, Uncheck, **Use ‘---release’ option**
  2. Lastly click on **Apply** and **OK**

# Related Explanation:

In order to extract the unique ids of individual UI elements of a webpage, right click on the UI element and select “Inspect Element”. You will see some HTML code which gets open in a window at the bottom of the page. You will also see the selected element as being highlighted in the code. Now right-click on this selected code and select ‘Copy-> Outer HTML’ and paste on a notepad.

You will get the unique id of this element which can be used in Java code for referring this element.

Refer figure below:

