

Mouse Over actions using Python Selenium WebDriver

The Blog To Learn Selenium and Test Automation

```
self.options = Options();  
self.options.set_preference("browser.download.folderList", 2);  
self.options.set_preference("browser.download.manager.showWhenStarting", False);  
self.options.set_preference("browser.download.defaultContentHandler", "application/octet-stream,application/vnd.ms-excel");  
self.driver = webdriver.Firefox(firefox_options=self.options);  
driver(self);
```

Mouse Over actions using Python Selenium WebDriver

 [admin](#)  [Java Selenium Python Selenium](#)  November 25, 2017 |  4

There will be scenarios where we need to click on the item of a drop down menu.

In order to perform this action manually, first we need to bring up the drop down menu by holding mouse over the parent menu. Then click on required child menu from drop down menu displayed.

Using ActionChains class in Selenium WebDriver, we can do this step in same manner as we do manually.

Step 1:

Import webdriver module

```
1 from selenium import webdriver
```

ActionChains implementation is available in below package.

```
1 from selenium.webdriver.common.action_chains import ActionChains
```

Step 2:

Open Firefox browser and load URL.

```
1 driver = webdriver.Firefox(executable_path="")  
2 driver.get("https://UrlToOpen")
```

Step 3:

Create ActionChains object by passing driver object

```
1 action = ActionChains(driver)
```

Step 4:

Find first level menu object in page and move cursor on this object using method 'move_to_element()'.

Method perform() is used to execute the actions that we have built on action object. Do the same for all objects.

```
1 firstLevelMenu = driver.find_element_by_id("menu")  
2 action.move_to_element(firstLevelMenu).perform()  
3 secondLevelMenu = driver.find_element_by_xpath("//a[contains(text(),'menu1')]")  
4 action.move_to_element(secondLevelMenu).perform()
```

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Click on the required menu item using method click()

Python

```
1 secondLevelMenu.click()
```

Final block of code:

Python

```
1 from selenium import webdriver
2 from selenium.webdriver.common.action_chains import ActionChains
3
4 driver = webdriver.Firefox(executable_path="")
5 driver.get("https://UrlToOpen")
6
7 action = ActionChains(driver)
8
9 firstLevelMenu = driver.find_element_by_id("menu")
10 action.move_to_element(firstLevelMenu).perform()
11
12 secondLevelMenu = driver.find_element_by_xpath("//a[contains(text(),'menu1')]")
13 secondLevelMenu.click()
```

Java code for the same operation:

Java

```
1 package com.all.seleniumblog.sample;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.firefox.FirefoxDriver;
6 import org.openqa.selenium.interactions.Actions;
7 import org.openqa.selenium.remote.DesiredCapabilities;
8
9 public class MouseHover {
10     public static void main(String[] args) throws InterruptedException {
11         System.setProperty("webdriver.gecko.driver", "");
12         DesiredCapabilities desiredCapabilities = DesiredCapabilities.firefox();
13         WebDriver driver = new FirefoxDriver(desiredCapabilities);
14         driver.get("https://UrlToOpen");
15
16         Actions action = new Actions(driver);
17         action.moveToElement(driver.findElement(By.id("menu"))).perform();
18         driver.findElement(By.xpath("//a[contains(text(),'menu1')]")).click();
19     }
20 }
```



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MOUSE HOVER

MOUSE OVER

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4 Responses

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Thank you a lot!!!! Very helpful article for the beginner.

[Reply](#)



Rahul

October 16, 2019 at 1:21 am

I tried doing a similar thing and while the effect was synonymous to actual mouse movement, I didn't see the mouse cursor moving to the places so that I can judge speed and other aspects of the actions. Do you know how to make the actual mouse cursor or a dummy one move as per the actions. Another aspect would be whether actual mouse cursor also continues to interact with the page alongside the dummy one.

[Reply](#)



Nic patel

December 23, 2019 at 10:27 am

amazing ... working never think it will be so smooth...thank you

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Python Selenium all mouse actions using ActionChains - All Selenium

February 16, 2020 at 12:31 pm

[...] discussed in our previous article, there might be many scenarios where we need to use mouse actions in automation testing. Some [...]

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