Code for automating login page in chrome using Selenium WebDriver:

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import org.testng.Assert;

import org.testng.annotations.Test;

public class LoginAutomation {

@Test

public void login() {

System.setProperty("webdriver.chrome.driver", "path of driver");

WebDriver driver=new ChromeDriver();

driver.manage().window().maximize();

driver.get("https://www.browserstack.com/users/sign\_in");

WebElement username=driver.findElement(By.id("user\_email\_Login"));

WebElement password=driver.findElement(By.id("user\_password"));

WebElement login=driver.findElement(By.name("commit"));

username.sendKeys("abc@gmail.com");

password.sendKeys("your\_password");

login.click();

String actualUrl="https://live.browserstack.com/dashboard";

String expectedUrl= driver.getCurrentUrl();

Assert.assertEquals(expectedUrl,actualUrl);

}

}

the ***findElements()*** method in which we provide the By object with tagName.

Import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

public class FindElementByTagName {

public static void main(String[] args) {

System.setProperty("webdriver.chrome.driver", "C:/testSelenium/chromedriver.exe");

WebDriver driver = new ChromeDriver();

driver.get("https://demoqa.com/text-box/");

// Find elements using tag name

List<WebElement> allInputElements = driver.findElements(By.tagName("input"));

if(allInputElements.size() != 0)

{

System.out.println(allInputElements.size() + " Elements found by TagName as input \n");

for(WebElement inputElement : allInputElements)

{

System.out.println(inputElement.getAttribute("placeholder"));

}

}

}

}

If none of the web elements within the web page matches the id attribute then a ***"NoSuchElementException"*** is raised.

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

public class FindElementById {

public static void main(String[] args) {

System.setProperty("webdriver.chrome.driver", "C:/testSelenium/chromedriver.exe");

WebDriver driver = new ChromeDriver();

driver.get("https://demoqa.com/text-box/");

WebElement element = driver.findElement(By.id("submit"));

if(element != null) {

System.out.println("Element found by ID");

}

}

}

Following code shows the program to find an element using Name (By.name):

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

public class FindElementByName {

public static void main(String[] args) {

System.setProperty("webdriver.chrome.driver", "C:/testSelenium/chromedriver.exe");

WebDriver driver = new ChromeDriver();

driver.get("https://demoqa.com/automation-practice-form");

WebElement element = driver.findElement (By.name("gender"));

if(element != null) {

System.out.println("Element found by Name");

}

}

}

Following is the program to find elements using ***By.tagName*** object.

import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

public class FindElementByTagName {

public static void main(String[] args) {

System.setProperty("webdriver.chrome.driver", "C:/testSelenium/chromedriver.exe");

WebDriver driver = new ChromeDriver();

driver.get("https://demoqa.com/automation-practice-form");

WebElement element = driver.findElement (By.tagName("input"));

if(element != null) {

System.out.println("Element found by tagName");

}

}

}

**Add A item To The Cart.**

1. package com.WebstaurantStore.exercises;
3. import java.util.concurrent.TimeUnit;
5. import org.openqa.selenium.By;
6. import org.openqa.selenium.NoSuchElementException;
7. import org.openqa.selenium.WebDriver;
8. import org.openqa.selenium.WebElement;
9. import org.openqa.selenium.chrome.ChromeDriver;
10. import org.openqa.selenium.support.ui.ExpectedConditions;
11. import org.openqa.selenium.support.ui.FluentWait;
12. import org.openqa.selenium.support.ui.WebDriverWait;
14. import com.google.common.base.Function;
16. public class automateWebstaurantStore {
18. public static WebDriver driver;
19. public static String driverPath = "C:\\workspace\\tools\\selenium\\";
20. public static String sBookKey = "Selenium";
21. private static final String sSearchBox = "WS-top-search-box";
22. private static final String sSearchResult = "//li[contains(text(),'in')]//span";
23. private static final String sBookName = "(//a[contains(.,'" + sBookKey + "')])[last()]";
24. private static final String sAddToCart = "(//input[contains(@value,'Add to Cart')])[1]";
25. private static final String sViewCartXPath = "(//a[contains(.,'view cart')])[1]";
27. public static void initWebDriver(String URL) throws InterruptedException {
29. // Setting up Chrome driver path.
30. System.setProperty("webdriver.chrome.driver", driverPath + "chromedriver.exe");
31. // Launching Chrome browser.
32. driver = new ChromeDriver();
33. driver.get(URL);
34. driver.manage().window().maximize();
35. }
37. public static void main(String[] args) throws InterruptedException {
39. initWebDriver("http://www.flipkart.com");
41. WebstaurantStoreLogin();
43. driver.findElement(By.id(sSearchBox)).sendKeys(sBookKey);
45. WebElement searchResult = getElement(By.xpath(sSearchResult));
46. searchResult.click();
48. WebDriverWait wait = new WebDriverWait(driver, 30);
50. wait.until(ExpectedConditions.elementToBeClickable(By.xpath(sBookName))).click();
52. wait.until(ExpectedConditions.elementToBeClickable(By.xpath(sAddToCart))).click();
54. getElement(By.xpath(sViewCartXPath)).click();
55. getElement(By.cssSelector("form[id='view-cart-form'] button")).click();
56. getElement(By.xpath("//input[@id='email' and @name='email']")).sendKeys("test@testmail.com");
58. // pause for a second and close the browser.
59. Thread.sleep(1000);
60. endSession();
61. }
63. public static WebElement getElement(final By locator) {
64. FluentWait<WebDriver> wait = new FluentWait<WebDriver>(driver).withTimeout(30, TimeUnit.SECONDS)
65. .pollingEvery(5, TimeUnit.SECONDS).ignoring(NoSuchElementException.class);
67. WebElement element = wait.until(new Function<WebDriver, WebElement>() {
69. @Override
70. public WebElement apply(WebDriver arg0) {
71. return arg0.findElement(locator);
72. }
74. });
76. return element;
77. }
79. public static void WebstaurantStoreLogin() {
80. driver.findElement(By.linkText("Log In")).click();
82. // TBD: Fill your username/password of WebstaurantStore.
83. getElement(By.cssSelector("input[placeholder='Enter email/mobile']")).sendKeys("");
84. getElement(By.cssSelector("input[placeholder='Enter password']")).sendKeys("");
85. getElement(By.cssSelector("input[value='Login'][class='submit-btn login-btn btn']")).click();
87. try {
88. Thread.sleep(1000);
89. } catch (InterruptedException e) {
90. // TBD: Auto-generated catch block.
91. e.printStackTrace();
92. }
93. }
95. public static void endSession() {
96. driver.close();
97. driver.quit();
98. }

}