Chapter 4 – Locating Elements

What is an Element?

The fields which are in a web application are called as Elements

Ex:

Text Box

Multiline Text box

Button

Progressbar

Slider

Dropdown

Radio buttons

Checkbox

Labels

Web table

Images

Callender

Links…………………………………..

What is Locating Elements?

Identifying elements by WebDriver is called as Locating Elements.

While designing test script or while executing a test script Selenium has to locate the elements.

How Selenium is locating the elements?

Based on below syntaxes:

1. Locating single Element
2. Locating Multiple Elements
3. Locating a single Element

driver.findElement(By.locatorName(“locator value”))

Ex:

Locators:

id

name

className

linkText

partialLinkText

tagName

xpath

Ex:

Open qbank application🡪Enter user name 🡪Enter password🡪press Enter🡪Click on Logout🡪Close the browser

**package** demo;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.Keys;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.chrome.ChromeDriver;

**public** **class** LocatorsDemo {

**public** **static** **void** main(String[] args) **throws** InterruptedException {

// **TODO** Auto-generated method stub

System.*setProperty*("webdriver.chrome.driver", "C:\\Qicon\\March24\\Automation\\Software\\chromedriver.exe");

WebDriver driver=**new** ChromeDriver();

driver.get("https://qbankv1.nextitproject.com");

driver.findElement(By.*id*("userName")).sendKeys("qbank");

driver.findElement(By.*id*("passWord")).sendKeys("password123");

driver.findElement(By.*id*("passWord")).sendKeys(Keys.***ENTER***);

Thread.*sleep*(5000);

driver.findElement(By.*className*("nav-link")).click();

driver.close();

}

}

Ex:

**package** demo;

**import** org.openqa.selenium.By;

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**public** **class** LocatorsDemo {

**public** **static** **void** main(String[] args) **throws** InterruptedException {

// **TODO** Auto-generated method stub

System.*setProperty*("webdriver.chrome.driver", "C:\\Qicon\\March24\\Automation\\Software\\chromedriver.exe");

WebDriver driver=**new** ChromeDriver();

driver.get("https://seleniumbase.io/demo\_page");

driver.findElement(By.*id*("myTextInput")).sendKeys("hello");

driver.findElement(By.*className*("textareaClass area1")).sendKeys("how are you");

}

}

Ex3; Open google.com🡪Enter “selenium help” in google search text box

Html code

1. Input/text box :

Tag name is : input

1. Multiline text box

Tag name : TextArea

1. Button

Tag Name : button

1. CheckBox

TagName : input

Note: for text box and check box tag name is input only

We can differentiate with type attribute value

If type is text then it is text box

If type is checkbox then it is checkbox

1. Links

Tag name : a

1. Radio button

Tag name : input

Type = radio

1. Label

Tag name : label

1. Images

Tagname; Img

1. Web table

Tag name : table

10 dropdown

Tag name : select

Dropdown value tag name is : options