Essential Software Testing

This is a BLOG where I (Tushar Singhal) write about my experiences with Testing Software and Learning in Software Testing:)

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FRIDAY, 9 JUNE 2017

Selenium WebDriver Interview Question with Answer - Part 2

1. Difference between Absolute path & Relative path.

Absolute path will start with root path (/) and Relative path will from current path (//)

Absolute xPath

: /html/body/div[3]/div[2]/div[2]/div[2]/div[2]/div[2]/div[4]/div[4]/div[0id='main']/div[0id='Blog1']/div[1]/div[1]/div/div[1]/div/h3/a

Relative xPath: //h3/a[text()='Working on New Window']

2. Tell me some TestNG Annotations.

@Test, @Parameters, @Listeners, @BeforeSuite, @AfterSuite, @BeforeTest, @AfterTest, @DataProvider, @BeforeGroups, @AfterGroups, @BeforeClass, @AfterClass, @BeforeMethod, @AfterMethod, @Factory

3. What are desired capabilities?

Desired Capabilities help to set properties for the Web Driver. A typical use case would be to set the path for the Firefox Driver if your local installation doesn't correspond to the default settings.

4. Difference between Selenium RC and Selenium Web driver.

Difference between Selenium RC and Selenium Web driver.

Selenium RC	Selenium Web driver
Selenium RC's architecture is way more	Web Driver's architecture is simpler than
complicated.	Selenium RC's.
Selenium RC is slower since it uses a	Web Driver is faster than Selenium RC
JavaScript program called Selenium	since it speaks directly to the browser uses
Core.This Selenium Core is the one that	the browser's own engine to control it.
directly controls the browser, not you.	
Selenium Core, just like other JavaScript	Web Driver interacts with page elements in
codes, can access disabled elements.	a more realistic way.
Selenium RC's API is more matured but	Web Driver's API is simpler than Selenium
contains redundancies and often confusing	RC's. It does not contain redundant and
commands.	confusing commands.
Selenium RC cannot support the headless	Web Driver can support the headless
HtmlUnit browser. It needs a real, visible	HtmlUnit browser.
browser to operate on.	
Selenium RC Has Built-In Test Result	Web Driver has no built-in command that
Generator. Selenium RC automatically	automatically generates a Test Results File.
generates an HTML file of test results.	
Selenium RC needs the help of the RC	web Driver directly talks to the browser
Server in order to do so.	
Selenium RC can support new browsers	It cannot readily support new browsers

5. Difference between Web driver listener and TestNG Listener.

TestNG and Web driver Listener have different interfaces to implement and call them. They both modify respective behaviour. You can use Listeners in Annotation. Below 2 URL gives the detailed list of listener and their interfaces.

6. Describe your framework.

Update article on it very soon, Google it for answer

7. Which is the best way to locate an element?

Finding elements by ID is usually going to be the fastest option, because at its root, it eventually calls down to document.getElementById(), which is optimized by many browsers.

Finding elements by XPath is useful for finding elements using very complex selectors, and is the most flexible selection strategy, but it has the potential to be very slow, particularly in IE. In IE 6, 7, or 8, finding by XPath can be an order of magnitude slower than doing the same in Firefox. IE provides no native XPath-over-HTML solution, so the project must use a JavaScript XPath implementation, and the JavaScript

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engine in legacy versions of IE really is that much slower.

If you have a need to find an element using a complex selector, I usually recommend using CSS Selectors, if possible. It's not quite as flexible as XPath, but will cover many of the same cases, without exhibiting the extreme performance penalty on IE that XPath can.

8. Why we refer Firefox driver to the web driver inheritance.

web Driver driver = new FireFoxDriver();

WebDriver is an interface which contain several abstract methods such as get(...), findElamentBy(...) etc. We simply create reference of web Driver and we can assign objects (Firefox driver, CromeDriver, IEDriver, Andriod driver etc) to it.

Ex:

WebDriver driver = new FireFoxDriver();-----(1)

If we are using (1) we can do the same thing by using

FireFoxDriver driver = new FireFoxDriver();-----(2)

We can use (1) and (2) for same purpose but if we want to switch to another browser in same program then again we have to create the object of other class as for example

CromeDriver driver = new CromeDriver();.

creating object of several class is not good. So we create the reference of WebDriver and

we assign the objects of another class as for example

WebDriver driver; // it is created only one time in the program

driver = new FireFoxDriver();// any where in the program

driver = new CromeDriver(); // any where in the program

9. What are the features of TestNG?

TestNG is a testing framework designed to simplify a broad range of testing needs, from unit testing (testing a class in isolation of the others) to integration testing (testing entire systems made of several classes, several packages and even several external frameworks, such as application servers). You can use test suite, annotations, automatically generation of report and much more.

10. What is the difference between thread.Sleep() and selenium. Set Speed ("2000")?

If the application is taking time to load the page then we use selenium.waitforpageload (" "). This command is doesn't wait upto the given time whenever the page load is completed. If the application is taking time to refresh the page, then we use Thread. Sleep ().it is a standard wait it simply wait to the given time.

selenium.setSpeed

- 1. Takes a single argument in string format
- Ex: selenium.setSpeed("2000") will wait for 2 seconds
- 2. Runs each command in after setSpeed delay by the number of milliseconds mentioned in set Speed. **thread.sleep**
- 1. Takes a single argument in integer format
- ex: thread. Sleep(2000) will wait for 2 seconds
- 2. Waits for only once at the command given at sleep.

11. In what situation selenium finding element get fails?

- -->Element loading issue
- -->Dynamic id of web element

12. What is the difference between "GET" and "NAVIGATE" to open a web page in selenium web driver?

Get method will get a page to load or get page source or get text that's all whereas navigate will guide through the history like refresh, back, forward. For example if we want to move forward and do some functionality and back to the home page this can be achieved through navigate() only. driver.get will wait till the whole page gets loaded and driver. navigate will just redirect to that page and will not wait

13. Please tell me the difference b/w implicitly Wait and Explicit wait.

Implicit Wait sets internally a timeout that will be used for all consecutive Web Element searches. It will try lookup the element again and again for the specified amount of time before throwing a NoSuchElementException if the element could not have been found. It does only this and can't be forced into anything else - it waits for elements to show up.

Explicit Wait or just Wait is a one-timer used by you for a particular search. It is more extendible in the means that you can set it up to wait for any condition you might like. Usually, you can use some of the prebuilt Expected Conditions to wait for elements to become clickable, visible, invisible, etc., or just write your own condition that suits your needs.

14. How we can retrieve the dynamically changing Ids?

When we login Facebook the login label's id

changes dynamically thus resulting in failure.

We have a hierarchy of locators and Facebook Is dynamic in nature,so we are not able to use "id" for identification for after that we have remaining 7 locator's for that :2. xpath ()... 3. name.4. css... 5. link text... 6. partiallinktext...7.tag name. so u can use any one for identifying it. Most probably u can use "xpath" or "css-locator" and if there r tag then link text or partial-link text. it depend on u . But we never use id's in Ajax application because it's not possible.

15.What is the difference between driver.Close() and driver.Quit () method?

Close() - It is used to close the browser or page currently which is having the focus.

Quit() - It is used to shut down the web driver instance or destroy the web driver instance (Close all the windows)

16. How to scroll web element?--not browser—FirefoxProfile profile=new FirefoxProfile();

profile.setEnableNativeEvents(true);
WehDriver driver=new FirefovDriver(nrofile)

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Hi, This has reference to your CV advertised on Portal We would like to know if you are contemplating a change at this point of your car...

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```
driver.navigate("http://jqueryui.com/draggable/");
Thread.sleep(6000L);
WebElement element=driver.findElement(By.xpath("//div[@id='draggable']"));
Actions actn=new Actions(driver);
actn.dragAndDropBy(element, 50, 50).build().perform();
```

17. What is the basic use of Firefox profiles and how can we use them using selenium?

A profile in Firefox is a collection of bookmarks, browser settings, extensions, passwords, and history; in short, all of your personal settings.

We use them to change user agent, changing default download directory, changing versions etc.

18. Customize the name of file going to be downloaded?

You have to download AUTO IT.exe file and has to be install and later you have create .au3 file (in this file you have to specify the commands in VB script like your file name, where have to save, it will be easy may be 3 or 4 steps) using AUTOIT...then right click the .au3 file you have to compileafter that you will get the .exe file with the name of .au3 file ..In eclipse you will give the code like this ----processbuildder.exe="".start="" au3="" file="" of="" path="" processbuilder="" ps="new" the="">

19. How to handle internationalisation through web driver?

FirefoxProfile profile = new FirefoxProfile(); profile.set Preference("intl.accept_languages","jp"); Web driver driver = new FirefoxDriver(profile); driver.get(google.com) will open google in Japanese Lang

20. How to overcome same origin policy through web driver?

Proxy server

DesiredCapabilities capability=new DesiredCapabilities.firefox(); capability.setCapability(CapabilityType.PROXY,"your desire proxy") WebDriver driver=new FirefoxDriver(capability);

21. How to put text in Facebook search box using selenium web driver.

driver.findElement(By.xpath("//div[contains(@class, '_586i')]")).sendKeys("abc");

22. Difference between flex and flash application

In flash there is no code just based on creativity(design) we will complete the work(time consuming process) whereas flex contain some small functions which is integrated with mxml,PHP..(no tool is there to develop flex we want to use the properties of css and style sheet)

23. What is Error Collector in TestNG? What is its use?

This class allows the collection of errors during the process of retrieving the test data for the test method parameters

24. How can we get the font size, font color, font type used for a particular text on a web page using Selenium web driver?

driver.findelement(By.Xpath("Xpath").getcssvalue("font-size); driver.findelement(By.Xpath("Xpath").getcssvalue("font-colour); driver.findelement(By.Xpath("Xpath").getcssvalue("font-type); driver.findelement(By.Xpath("Xpath").getcssvalue("background-colour);

25. How to run tests in multiple browser parallel? Is there any other option other than selenium

26. How to prepare Customized html Report using TestNG in hybrid framework.

Below are the 3 ways:

- Junit: with the help of ANT.
- TestNG: using inbuilt default.html to get the HTML report. Also XST reports from ANT, Selenium, TestNG combination.
- . Using our own customized reports using XSL jar for converting XML content to HTML.

27. "What's the hierarchy of TestNG annotations? Explain me about annotation hierarchy &

Please find hierarchy below:

- 1. org.testng.annotations.Parameters (implements java.lang.annotation.Annotation)
- org.testng.annotations.Listeners (implements java.lang.annotation.Annotation)
- 3. org.testng.annotations.Test (implements java.lang.annotation.Annotation)
- org.testng.annotations.AfterMethod (implements java.lang.annotation.Annotation)
- 5. org.testng.annotations.BeforeTest (implements java.lang.annotation.Annotation)
- org.testng.annotations.BeforeMethod (implements java.lang.annotation.Annotation)
- 7. org.testng.annotations.Optional (implements java.lang.annotation.Annotation)
- org.testng.annotations.AfterTest (implements java.lang.annotation.Annotation)
- 9. org.testng.annotations.Guice (implements java.lang.annotation.Annotation)
- 10. org.testng.annotations.BeforeGroups (implements java.lang.annotation.Annotation)
- 11. org.testng.annotations.ExpectedExceptions (implements java.lang.annotation.Annotation)
- 12. org.testng.annotations.TestInstance (implements java.lang.annotation.Annotation) 13. org.testng.annotations.NoInjection (implements java.lang.annotation.Annotation)
- 14. org.testng.annotations.AfterSuite (implements java.lang.annotation.Annotation)
- 15. org.testng.annotations.AfterClass (implements java.lang.annotation.Annotation)
- 16. org.testng.annotations.AfterGroups (implements java.lang.annotation.Annotation)
- 17. org.testng.annotations.DataProvider (implements java.lang.annotation.Annotation)
- 18. org.testng.annotations.BeforeSuite (implements java.lang.annotation.Annotation)
- 19. org.testng.annotations.BeforeClass (implements java.lang.annotation.Annotation)
- 20. org.testng.annotations.Factory (implements java.lang.annotation.Annotation)
- 21. org.testng.annotations.Configuration (implements java.lang.annotation.Annotation)

```
Essential Software Testing: Selenium Webdriver
22. org.testng.annotations.ObjectFactory (implements java.lang.annotation.Annotation)
   Useful link:
   28. How the TestNG interacts with Selenium Core?
   Explain me steps and internal architecture?
   http://www.guru99.com/all-about-testng-and-selenium.html
   29. Is it possible test web services using selenium?
   Using Jmeter we can test how one website is talking to each other means time taken to
   send data, feeds, messages from one website to other website. Jmeter does a nice job
   of doubling for performance and api tests.
   30. How to refresh a page without using context click?
   1.Using sendKeys.Keys method
   2.Using navigate.refresh() method
   3.Using navigate.refresh() method
   4.Using get() method
   5.Using sendKeys() method
   1.Using sendKeys.Keys method
   driver.get("https://accounts.google.com/SignUp");
   driver.findElement(By.id("firstname-placeholder")).sendKeys(Keys.F5);
   2.Using navigate.refresh() method
   driver.get("http://ruchi-myseleniumblog.blogspot.in/2013/12/100-selenium-interview-
   questions.html");
   driver.navigate().refresh();
   3.Using navigate.to() method
   driver.get("http://ruchi-myseleniumblog.blogspot.in/2014/01/selenium-hybrid-framework-
   using.html"):
   driver.navigate().to(driver.getCurrentUrl());
   4.Using get() method
   \label{log:core-java-interview-decomposition} driver.get ("http://ruchi-myseleniumblog.blogspot.in/2013/12/basic-core-java-interview-questions.html");
   driver.get(driver.getCurrentUrl());
   5.Using sendKeys() method
   driver.get("https://accounts.google.com/SignUp");
   driver.findElement(By.id("firstname-placeholder")).sendKeys("\uE035");
   31. Can u send a code for printing in selenium?
   There are two cases:
   Case1. Any hyperlink/button on a web page, n clicking that link/button a print dialog box
   opens. (Performing an action on web page)
   Case2.or do u want to open print dialog box within ur own script, not by performing any
   action on web page.
   So If Case 1: just a call for WebElement.click() event will work to open it.
   If Case 2: Call a Printer Job object (Use Awt API).
   For code: Google it.
   http://code.google.com/p/selenium/issues/detail?id=1815
   32. How to find broken images in a page using Selenium Web driver.
   1. Get xpath and then using tag name; get all the links in the page
   2. Click on each and every link in the page
   3. In the target page title, look for 404/500 error.
   33. How to handle Ajax popup window?
   By using getWindowHandles() and obj.switchTo.window(windowid) we can handle popups using
   explicit wait and driver.swtchT0.window("name") commands for your requirements.
   34. How to handle auto complete box in web driver?
   By typing in box and capturing list elements
   driver.findElement(By.id("your searchBox")).sendKeys("your partial keyword");
   Thread.sleep(3000);
   List listItems = driver.findElements(By.xpath("your list item locator"));
   listItems.get(0).click();
   driver.findElement(By.id("your searchButton")).click();
   35. How to get the name of browser using Web Driver?
   public class JsExecute
   WebDriver driver;
   JavascriptExecutor js;
   @Before
   public void setUp() throws Exception
   driver=new FirefoxDriver();
   driver.get("http://www.google.com");
   @Test
   public void test()
   JavascriptExecutor js = (JavascriptExecutor) driver;
   System.out.println(js.executeScript("return navigator.appCodeName"));
   }}
   OR
   String s = (String) ((JavascriptExecutor) driver).executeScript("return navigator.userAgent;");
```

```
System.out.println("Browser name: " + s);
36. How to handle colors in web driver?
Use getCssValue(arg0) function to get the colors by sending 'color' string as an argument.
String col = driver.findElement(By.id(locator)).getCssValue("color");
37. How to pass parameters from testng.xml into test case.
package programs;
import org.openqa.selenium.WebDriver;
import\ org. open qa. selenium. chrome. Chrome Driver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.htmlunit.HtmlUnitDriver;
import org.openqa.selenium.ie.InternetExplorerDriver;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Parameters;
import org.testng.annotations.Test;
public class Parallelexecution {
private WebDriver driver = null;
 @BeforeTest
 @Parameters({ "BROWSER" })
public void setup(String BROWSER) {
   System.out.println("Browser: " + BROWSER);
 if (BROWSER.equals("FF")) {
  System.out.println("Firefox Browser is selected");
  driver = new FirefoxDriver();
 } else if (BROWSER.equals("IE")) {
  System.out.println ("Internet\ Explorer\ Browser\ is\ selected");
  driver = new InternetExplorerDriver();
 } else if (BROWSER.equals("HU")) {
  System.out.println("Html Unit Browser is selected");
  driver = new HtmlUnitDriver();
 } else if (BROWSER.equals("CH")) {
  System.out.println("Google chrome Browser is selected");
  driver = new ChromeDriver();
 @Test
public void testParallel() throws Exception {
 driver.get ("http://ruchi-myselenium-blog.blogspot.in/2013/12/100-selenium-interview-ruchi-myselenium-blog.blogspot.in/2013/12/100-selenium-interview-ruchi-myselenium-blog.blogspot.in/2013/12/100-selenium-interview-ruchi-myselenium-blog.blogspot.in/2013/12/100-selenium-interview-ruchi-myselenium-blog.blogspot.in/2013/12/100-selenium-interview-ruchi-myselenium-blog.blogspot.in/2013/12/100-selenium-interview-ruchi-myselenium-blog.blogspot.in/2013/12/100-selenium-interview-ruchi-myselenium-blog.blogspot.in/2013/12/100-selenium-interview-ruchi-myselenium-blog.blogspot.in/2013/12/100-selenium-interview-ruchi-myselenium-blog.blogspot.in/2013/12/100-selenium-interview-ruchi-myselenium-blog.blogspot.in/2013/12/100-selenium-interview-ruchi-myselenium-blog.blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-blogspot.in/2013/12/100-selenium-
questions.html");
above sample program BROWSER is a variable which value would be passed from TestNG.xml and
TestNG.xml and it will run the test multiple time each time BROWSER value would be set with
different browser name and test will check the BROWSER value and decide which browser test will
38. How to get text from captcha image??
driver.findElement(By.xpath(".//*[@id='SkipCaptcha']")).click();
String attr = ie.findElement(By.xpath(".//*[@id='SkipCaptcha']")).getAttribute("value");
System.out.println("The value of the attribute 'Name' is " + attr);
39. Is there a way to click hidden LINK in web driver?
String Block1 = driver.findElement(By.id("element ID"));
JavascriptExecutor js1=(JavascriptExecutor)driver;
js1.executeScript("$("+Block1+").css({'display':'block'});");
40. What Class Extends Web Driver?
AndroidDriver, ChromeDriver, EventFiringWebDriver, FirefoxDriver, HtmlUnitDriver,
InternetExplorerDriver, IPhoneDriver, PhantomJSDriver, RemoteWebDriver, SafariDriver
41. What are the APIs that support Web Driver?
API are nothing but collection of all selenium commands for Locating UI Elements
(WebElements), Fetching a Page, User Input etc...
42. How to disable cookies in browser.
Using deleteAllVisibleCookies() in selenium
43. "We have heard about frameworks well it can be
broadly classified into these TDD, BDD and ATDD frameworks .What's the Difference?"
For Details please see: http://assertselenium.com/2012/11/05/difference-between-tdd-bdd-atdd/
44. How to change user agent in Firefox by selenium web driver.
FirefoxProfile profile = new FirefoxProfile();
profile.setPreference("general.useragent.override", "some UA string");
Web Driver driver = new FirefoxDriver(profile);
45. What is Selenese?
Selenese is HTML language based command, which is used in Selenium IDE.
```

46.Differences between QTP and selenium.

- 1) Selenium generates a proxy while starting browser. QTP does not
- 2) QTP uses only Vb script. Selenium is available in many languages
- 3) QTP is paid and selenium is free.
- 4) You can run script from a particular line in QTP but in selenium, you cannot.
- 5) Selenium works on all browsers. QTP only works on IE, mozilla. Support from chrome has been introduced lately.
- 6) QTP is more organized and user friendly
- 7) Selenium requires more technical skills
- 8) QTP can also be used on desktop based applications but selenium cannot be used

47. What is the MOST challenging test problem in my career in Automation?

n my career

Changing XPATHS' between testing server and production server-by keeping generic xpath

Keep separate property files for production and UAT

automating flash apps

Mobile Automation

48. "Suppose developer changed the existing image to new image with same xpath. Is test case pass or fail?"

Pass

49. How to handle network latency using selenium?

Using driver.manage.pageLoadingtime for network latency

50. How does u handle dynamic elements without using xpath (with example?)

By using classname or css.

51. What are the different types of driver implementation?

AndroidDriver, AndroidWebDriver, ChromeDriver, EventFiringWebDriver, FirefoxDriver, HtmlUnitDriver, InternetExplorerDriver, IPhoneDriver, IPhoneSimulatorDriver, RemoteWebDriver, SafariDriver, WebDriverBackedSelenium

52. Code for Opening Firefox browser?

Webdriver driver=new FireFoxdriver();

53. Which repository you have used to store the test scripts?

I have created scripts in excel file and store them in Test cases folder under src .

54. How to work with radio button in web driver?

We can select the value from the drop down by using 3 methods.

selectByVisibleText - select by the text displayed in drop down selectByIndex - select by index of option in drop down selectByValue - select by value of option in drop down

xyz ▼

WebElement e = driver.findElement(By.id("44"));

Select selectElement=new Select(e);

// both of the below statements will select first option in the weblist

selectElement.selectByVisibleText("xyz");

select Element. select By Value ("1");

55. How to work with dynamic web table?

You can get the total number of tags within a tag by giving the xpath of the element by using this function -

List ele = driver.findElements(By.xpath("Xpath of the table"));

Now you can use a for each loop to loop through each of the tags in the above list and then read each value by using getText() method.

56. Detail about TestNG Test Output folder.

It is the directory where reports are generated. Every time tests run in a suite, TestNG creates index.html and other files in the output directory.

57. In frame if no frame Id as well as no frame name then which attribute I should consider throughout our script.

You can go like this.....driver.findElements(By.xpath("//iframe"))...

Then it will return List of frames then switch to each and every frame and search for the locator which you want then break the loop

58. What is object repository?

It is collection of object names their properties, attributes and their values .It maye be excel, XML, property file or text file α

59. TestNG vs. Junit?

Advantages of TestNG over Junit

- In Junit we have to declare @BeforeClass and @AfterClass which is a constraint where as in TestNG there is no constraint like this.
- -->Additional Levels of setUp/tearDown level are available in TestNG like @Before/AfterSuite,@Before/AfterTest and @Before/AfterGroup

No Need to extend any class in TestNG.

There is no method name constraint in TestNG as in Junit. You can give any name to the test methods in

-->In TestNG we can tell the test that one method is dependent on another method where as in Junit this is

not possible. In Junit each test is independent of another test.

Grouping of testcases is available in TestNG where as the same is not available in Junit.

-->Execution can be done based on Groups. For ex. If you have defined many cases and segregated them by defining 2 groups as Sanity and Regression. Then if you only want to execute the "Sanity" cases then just tell TestNG to execute the "Sanity" and TestNG will automatically execute the cases belonging to the "Sanity" group.

Also using TestNG your selenium test case execution can be done in parallel.

60. What is the difference between @before method and @beforeclass.

In JUnit4 @Before is used to execute set of preconditions before executing a test. For example, if there is a need to open some application and create a user before executing a test, then this annotation can be used for that method. Method that is marked with @Before will be executed before executing every test in the class. If a JUnit test case class contains lot of tests which all together need a method which sets up a precondition and that needs to be executed before executing the Test Case class then we can utilise "@BeforeClass" annotation.

61. What are the different Parameters for @Test annotation?

Parameters are keywords that modify the annotation's function.

For more details Go to: http://testng.org/doc/documentation-main.html#parameters

62. Can we run group of test cases using TestNG?

Test cases in group in Selenium using TestNG will be executed with the below options. If you want to execute the test cases based on one of the group like regression test or smoke test @Test(groups = {"regressiontest", "smoketest"})

For more details please see: http://testng.org/doc/documentation-main.html#test-groups

63. Differences between Selenium web driver, IDE and RC?

http://qtpselenium.com/selenium-tutorial/difference-between-ide-rc-webdriver/

64. How to highlight an object like qtp/uft does through selenium and java?

How to highlight an object with selenium and java

65. What are the different assertions in SIDE?

Assertions are like Assessors, but they verify that the state of the application conforms to what is expected. Examples include "make sure the page title is X" and "verify that this check box is checked".

All Selenium Assertions can be used in 3 modes: "assert", "verify", and "waitFor".

For example, you can "assertText", "verifyText" and "waitForText". When an "assert" fails, the test is aborted. When a "verify" fails, the test will continue execution, logging the failure. This allows a single "assert" to ensure that the application is on the correct page, followed by a bunch of "verify" assertions to test form field values, labels, etc.

"waitFor" commands wait for some condition to become true (which can be useful for testing Ajax applications). They will succeed immediately if the condition is already true. However, they will fail and

halt the test if the condition does not become true within the current timeout setting (see the **setTimeout** action below).

http://selenium-tutorial.blogspot.in/2013/03/selenium-webdriver-assertions.html

66. How to store a value which is text box using web driver?

driver.findElement(By.id("your Textbox")).sendKeys("your keyword");

67. How to handle alerts and confirmation boxes. Confirmation boxes and Alerts are handled in same way in selenium.

```
var alert = driver.switchTo().alert();
alert.dismiss(); //Click Cancel or Close window operation
alert.accept(); //Click OK
Handle Confirmation boxes via JavaScript,
driver.executeScript("window.confirm = function(message){return true;};");
```

68. How to mouse hover on an element?

 $\label{lem:action} Actions action = new Actions (webdriver); \\ WebElement we = webdriver.findElement (By.xpath ("html/body/div[13]/ul/li[4]/a")); \\ action.moveToElement (web.moveToElement (webdriver.findElement (By.xpath ("/expression-here"))).click().build().perform(); \\ \end{aligned}$

69. How to switch between the windows?

```
private void handlingMultipleWindows(String windowTitle) {
    Set windows = driver.getWindowHandles();
    for (String window : windows) {
        driver.switchTo().window(window);
        if (driver.getTitle().contains(windowTitle)) {        return;      }      }
    }
}
```

70. How to switch between frames?

WebDriver's driver.switchTo().frame() method takes one of the three possible arguments:

```
A number.
   Select a frame by its (zero-based) index. That is, if a page has three frames, the first frame would be at
   index "0", the second at index "1" and the third at index "2". Once the frame has been selected, all
   subsequent calls on the WebDriver interface are made to that frame.
A name or ID.

Select a frame by its name or ID. Frames located by matching name attributes are always given
   precedence over those matched by ID.
A previously found WebElement.
   Select a frame using its previously located WebElement.
   Get the frame by it's id/name or locate it by driver.findElement() and you'll be good.
   71. What is actions class in web driver?
   Actions class with web Driver help is Sliding element, Resizing an Element, Drag & Drop,
   hovering a mouse, especially in a case when dealing with mouse over menus.
   Dragging & Dropping an Element:
   import org.openqa.selenium.By;
   import org.openqa.selenium.WebDriver;
   import org.openqa.selenium.WebElement;
   import org.openqa.selenium.firefox.FirefoxDriver;
   import org.openga.selenium.interactions.Actions;
   public class testDragandDrop {
    public static void main(String[] args) throws InterruptedException {
    WebDriver driver = new FirefoxDriver();
    driver.get("http://jqueryui.com/resources/demos/droppable/default.html");
    WebElement draggable = driver.findElement(By.xpath("//*[@id='draggable']"));
    WebElement droppable = driver.findElement(By.xpath("//*[@id='droppable']"));
    Actions action = new Actions(driver);
   action.dragAndDrop(draggable, droppable).perform();
   Sliding an Element:
   import org.openqa.selenium.By;
   import org.openqa.selenium.WebDriver:
   import org.openqa.selenium.WebElement;
   import org.openga.selenium.firefox.FirefoxDriver;
   import org.openqa.selenium.interactions.Actions;
   public class testSlider {
     e @param args
    * @throws InterruptedException
    public static void main(String[] args) throws InterruptedException {
    WebDriver driver = new FirefoxDriver();
    driver.get("http://jqueryui.com/resources/demos/slider/default.html");
    WebElement slider = driver.findElement(By.xpath("//*[@id='slider']/a"));
    Actions action = new Actions(driver);
    Thread.sleep(3000);
    action.dragAndDropBy(slider, 90, 0).perform();
   Re-sizing an Element:
   import org.openqa.selenium.By;
   import org.openqa.selenium.WebDriver;
   import org.openqa.selenium.WebElement;
   import org.openqa.selenium.firefox.FirefoxDriver;
   import org.openqa.selenium.interactions.Actions;
   public class testResizable {
    public static void main(String[] args) throws InterruptedException {
    WebDriver driver = new FirefoxDriver();
    driver.get("http://jqueryui.com/resources/demos/resizable/default.html");
     WebElement resize = driver.findElement(By.xpath("//*[@id='resizable']/div[3]"));
    Actions action = new Actions(driver);
    action.dragAndDropBy(resize, 400, 200).perform();
   72. Difference between the selenium 1.0 and selenium 2.0?
   Selenium 1 = Selenium Remote Control.
   Selenium 2 = Selenium Web driver, which combines elements of Selenium 1 and Web driver.
   73. Difference between find element () and findelements ()?
   findElement():
   Find the first element within the current page using the given "locating mechanism".
   Returns a single WebElement.
   findElements():
   Find all elements within the current page using the given "locating mechanism".
   Returns List of Web Elements.
   findElement():
   Find the first element within the current page using the given "locating mechanism".
   Returns a single WebElement.
   Syntax: WebElement findElement(By by)
   driver.get("http://ruchi-myseleniumblog.blogspot.in/");
   WebElement widget = driver.findElement(By .xpath(".//*[@id='BlogArchive1_ArchiveList']"));
   widget.click();
   findElements():
   Find all elements within the current page using the given "locating mechanism".
   Returns List of WebElements.
   Syntax:
```

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```
wedelement ullist = driver.findElement[By.className("posts"]);
 List posts = ullist.findElements(By.tagName("li"));
 System.out.println("List of Posts are Below");
 for (int i = 0; i < posts.size(); i++) {
 String post = posts.get(i).findElement(By.tagName("a")).getText();
 System.out.println(post);
74. How to take the screen shots in seelnium 2.0?
//store screenshots
public static void captureScreenShot(String filePath) {
 File scrFile = ((TakesScreenshot)driver).getScreenshotAs(OutputType.FILE);
 FileUtils.copyFile(scrFile, new File(filePath));
} catch (IOException e) {
// TODO Auto-generated catch block
e.printStackTrace();
75. What is the default time for selenium Ide and webdriver?
Default timeout in selenium ide is 30 seconds.
For web driver go to below URL:
http://assertselenium.com/2013/01/29/webdriver-wait-commands/
76. Write down scenarios which we can't automate?
Barcode Reader, Captcha etc.
77. In TestNG I have some test's Test1-Test2-Test3-Test4-Test5I want to run my execution order is
Test5-Test1-Test3-Test2-Test4. How do you set the execution order can you explain for that?
Use priority parameter in @test annotation or TestNG annotations.
78. Differences between jxl and ApachePOI.
jxl does not support XLSX files
jxl exerts less load on memory as compared to ApachePOI
jxl doesn't support rich text formatting while ApachePOI does.
jxl has not been maintained properly while ApachePOI is more up to date.
Sample code on Apache POI is easily available as compare to jxl.
79. How to ZIP files in Selenium
// Sample Function to make zip of reports
public static void zip(String filepath){
 File inputFolder=new File('Mention file path her");
 File outputFolder=new File("Reports.zip");
          ZipOutputStream out
                                            new
                                                   ZipOutputStream(new BufferedOutputStream(new
FileOutputStream(outputFolder)));
 BufferedInputStream in = null;
 byte[] data = new byte[1000];
String files[] = inputFolder.list();
 for (int j=0; ) {
    in = new BufferedInputStream(new FileInputStream
    (inputFolder.getPath() + "/" + files[j]), 1000);
  out.putNextEntry(new ZipEntry(files[j]));
  int totalcount;
  while((totalcount=in.read(data,0,1000)) != -1)
  out.write(data, 0, totalcount);
  out.closeEntry();
 out.flush();
 out.close();
 catch(Exception e)
 e.printStackTrace();
     return "Fail - " + e.getMessage();
80. What is default port no?
81. If Default port no is busy how to change port no?
We can use any port number which is valid.. First create an object to remote control configuration.
Use 'setPort' method and provide valid port number (4545,5555,5655, etc).. There after attach this
remote control configuration object to selenium server..i.e
RemoteControlConfiguration r= new RemoteControlConfiguration();
r.setPort(4567);
SeleniumServer s= new SeleniumServer(r);
82. Does Selenium support https protocols?
```

83. Majorly asked test scenario with framework in Interviews?

Majorly asked are:

- Login for Gmail scenario
- Goggle search and finding no of results
- Downloading a file and save it
- Checking mails and deleting them
- Do shopping in flipkart.com

84. Selenium support mobile applications?

No, it is browser automation tool, it only automates Websites opening in mobile browser, and mobile APPs

can't be automated.

85. What is wraps Driver?

For casting selenium instance to selenium2 (webdriver). wraps driver is used.

For more details.

http://selenium-junit4-runner.btmatthews.com/apidocs/com/btmatthews/selenium /junit4/runner/WrappedDriverFactory.html

86. Can you explain Junit Annotation? If there are 1000 test cases. 500 test cases are executed. How will you execute the rest of the test cases by using annotation?"

The annotations generated with JUnit 4 tests in Selenium are:

- 1. @Before public void method() Will perform the method() before each test. This method can prepare the test
- 2. @Test public void method() Annotation @Test identifies that this method is a test method.environment,e.g. read input data, initialize the class)
- 3. @After public void method() Test method must start with test@Before this annotation is used for executing a method before

87. Difference between assert and verify in selenium web driver.

When an "assert" fails, the test will be aborted. Assert is best used when the check value has to pass for the test to be able to continue to run log in.

Where if a "verify" fails, the test will continue executing and logging the failure.

Verify is best used to check non critical things. Like the presence of a headline element.

88. "I want to find the location of ""b"" in the below code, how can I find out without using xpath, name, id, csslocator, index.

b С

driver.findElement(By.xpath("//*[contains(text(),'b')]")).click(); or

//div/button[contains(text(),'b']

89. How to do Applet testing using selenium?

Please see below URLs:

http://docs.codehaus.org/display/FEST/Selenium

https://code.google.com/p/festselenium/

90. Name 5 different exceptions you had in selenium web driver and mention what instance you got it and how do you resolve it?

WebDriverException

NoAlertPresentException

NoSuchWindowException

NoSuchElementException

TimeoutException

WebDriverException

WebDriver Exception comes when we try to perform any action on the non-existing

WebDriver driver = new InternetExplorerDriver();

driver.get("http://google.com");

driver.close();

driver.quit();

• NoAlertPresentException

When we try to perform an action i.e., either accept() or dismiss() which is not required at a required place; gives us this exception.

try{

driver.switchTo().alert().accept();

catch (NoAlertPresentException E){ E.printStackTrace();

NoSuchWindowException

When we try to switch to an window which is not present gives us this exception:

WebDriver driver = new InternetExplorerDriver();

driver.get("http://google.com"); driver.switchTo().window("Yup_Fail");

driver.close();

In the above snippet, line 3 throws us an exception, as we are trying to switch to an

window that is not present. • NoSuchFrameException

• Similar to Window exception, Frame exception mainly comes during switching between the frames.

WebDriver driver = new InternetExplorerDriver();

driver.get("http://google.com");

driver.switchTo().frame("F_fail"); driver.close();

http://essentialsoftwaretesting.blogspot.in/search/label/Selenium%20Webdriver

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In the above snippet, line 3 throws us an exception, as we are trying to switch to an frame that is not present.

• NoSuchElementException

This exception is thrown when we WebDriver doesn't find the web-element in the DOM.

WebDriver driver = new InternetExplorerDriver();

driver.get("http://google.com");

driver.findElement(By.name("fake")).click();

TimeoutException

Thrown when a command does not complete in enough time.

All the above exceptions were handled using try catch exceptions.

91. How do you manage the code versions in your project?

Using SVN or other versioning tools

92. Latest version of Firefox and selenium in market and the version on which you are testing which you are testing.

FF Latest version till Dec,2013 for windows7,64 bit :26.0.I use FF 25.0.1 (ur ans. may differ) Selenium web driver latest version till dec,2013- 2.39.0 I use selenium 2.37 see latest at

http://www.seleniumhq.org/download/

93. How to know all the methods supported in web driver and its syntax.

In Org. openqa.selenium package, web driver interface has all the main methods that can be used in Selenium Web driver

 $HTTP://docs.seleniumhq.org/docs/03_webdriver.jsp$

94. How do you create html test report from your test script?

- I would see below 3 ways:
- . Junit: with the help of ANT.
- TestNG: using inbuilt default.html to get the HTML report. Also XLST reports from ANT, Selenium, TestNG combination.
- Using our own customized reports using XSL jar for converting XML content to HTML.

95. List the browsers, OS supported by the Selenium

Windows Linux Mac

IE Y NA NA

FFYYY

Safari Y N Y Opera Y Y Y

Chrome Y Y Y

96. Can you explain Selenium Mobile Automation?

 $https://code.google.com/p/selenium/wiki/AndroidDriver \\ http://manojhans.blogspot.in/2013/08/native-android-apps-automation-with.html$

97. What mobile devices it may Support?

Selenium Web driver supports all the mobile devices operating on Android, IOS operating Systems Android – for phones and tablets (devices & emulators) iOS for phones (devices & emulators) and for tablets (devices & emulators)

98. What is the difference between single and double slash in Xpath?

/

1.It starts selection from the document node

2. It Allows you to create 'absolute' path expressions

3. e.g "/html/body/p" matches all the paragraph elements

//

1. It starts selection matching anywhere in the document

2. It Allows you to create 'relative' path expressions

3. e.g"//p" matches all the paragraph elements

99. What are the test types supported by Selenium?

Selenium supports UI and functional testing. As well it can support performance testing for reasonable load using selenium grid.

100. In what all case we have to go for "JavaScript executor".

Consider FB main page after you login. When u scrolls down, the updates get loaded. To handle this activity, there is no selenium command. So you can go for javascript to set the scroll down value like driver.executeScript("window.scrollBy(0,200)", "");

Reference Blog http://selenium-suresh.blogspot.in

By Tushar Singhal at June 09, 2017 No comments: Links to this post

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ABOUT ME



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6+ Years of industry experience in the area of Software Testing (Manual and Automation) with understanding of Test Planning, Test Design, Test Execution and Defect Reporting and Tracking. Experience to work on Tools like Jmeter, Eclipse IDE, Selenium Webdriver, Sikuli, TestNG, Maven, Jenkins and SOAP UI

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