By Naveen Khunteta

1. What is Automation Testing?

Automation testing is the process of testing the software using an automation tool to find the defects. In this process, executing the test scripts and generating the results are performed automatically by automation tools. Some most popular tools to do automation testing are HP QTP/UFT, Selenium WebDriver, etc.,

2. What are the benefits of Automation Testing?

· Saves time and money. Automation testing is faster in execution.

· Reusability of code. Create one time and execute multiple times with less or no maintenance.

· Easy reporting. It generates automatic reports after test execution.

· Easy for compatibility testing. It enables parallel execution in the combination of different OS and browser environments.

· Low-cost maintenance. It is cheaper compared to manual testing in a long run.

· Automated testing is more reliable.

· Automated testing is more powerful and versatile.

· It is mostly used for regression testing. Supports execution of repeated test cases.

· Minimal manual intervention. Test scripts can be run unattended.

· Maximum coverage. It helps to increase the test coverage.

3. What type of tests have you automated?

Our main focus is to automate test cases to do Regression testing, Smoke testing, and Sanity testing. Sometimes based on the project and the test time estimation, we do focus on End to End testing.

4. How many test cases you have automated per day?

It depends on Test case scenario complexity and length. I did automate 2-5 test scenarios per day when the complexity is limited. Sometimes just 1 or fewer test scenarios in a day when the complexity is high.

5. What is a Framework?

A framework defines a set of rules or best practices which we can follow in a systematic way to achieve the desired results. There are different types of automation frameworks and the most common ones are:

• Data Driven Testing Framework

• Keyword Driven Testing Framework

• Hybrid Testing Framework

6. Have you created any Framework?

If you are a beginner: No, I didn’t get a chance to create a framework. I have used the framework which is already available.

If you are an experienced tester: Yes, I have created a framework. Or I have involved in the creation of the framework.

7. Can you explain the Framework which you have used in your Selenium Project?

Here we have clearly explained each component of Framework.

8. Why do you prefer Selenium Automation Tool?

· Free and open source

· Have large user base and helping communities

· Cross browser compatibility

· Platform compatibility

· Multiple programming languages support

9. What is Selenium?

Selenium is an open source (free) automated testing suite to test web applications. It supports different platforms and browsers. It has gained a lot of popularity in terms of web-based automated testing and giving a great competition to the famous commercial tool HP QTP (Quick Test Professional) AKA HP UFT (Unified Functional Testing).

Selenium is a set of different software tools. Each tool has a different approach in supporting web based automation testing.

It has four components namely,

i Selenium IDE (Integrated Development Environment)

ii Selenium RC (Remote Control) – selenium 1

iii Selenium WebDriver – selenium 2 & 3

iv Selenium Grid

10. What is Selenium IDE?

Selenium IDE (Integrated Development Environment) is a Firefox plugin. It is the simplest framework in the Selenium Suite. It allows us to record and playback the scripts. Even though we can create scripts using Selenium IDE, we need to use Selenium RC or Selenium WebDriver to write more advanced and robust test cases.

11. What is Selenese?

Selenese is the language which is used to write test scripts in Selenium IDE.

12. Which is the only browser that supports Selenium IDE to be used?

Firefox

13. What is Selenium RC?

Selenium RC AKA Selenium 1. Selenium RC was the main Selenium project for a long time before the WebDriver merge brought up Selenium 2. Selenium 1 is still actively supported (in maintenance mode). It relies on JavaScript for automation. It supports Java, Javascript, Ruby, PHP, Python, Perl and C#. It supports almost every browser out there.

14. What is Selenium WebDriver?

Selenium WebDriver AKA Selenium 2 is a browser automation framework that accepts commands and sends them to a browser. It is implemented through a browser-specific driver. It controls the browser by directly communicating with it. Selenium WebDriver supports Java, C#, PHP, Python, Perl, Ruby.

15. What is Selenium Grid?

Selenium Grid is a tool used together with Selenium RC to run tests on different machines against different browsers in parallel. That is, running multiple tests at the same time against different machines running different browsers and operating systems.

In simple words, it is used to distribute your test execution on multiple platforms and environments concurrently.

16. When do you use Selenium Grid?

Selenium Grid can be used to execute same or different test scripts on multiple platforms and browsers concurrently so as to achieve distributed test execution

17. What are the advantages of Selenium Grid?

It allows running test cases in parallel thereby saving test execution time.

It allows multi-browser testing

It allows us to execute test cases on multi-platform

18. What is a hub in Selenium Grid?

A hub is a server or a central point that controls the test executions on different machines.

19. What is a node in Selenium Grid?

Node is the machine which is attached to the hub. There can be multiple nodes in Selenium Grid.

20. What are the types of WebDriver APIs available in Selenium?

• Firefox Driver

• Gecko Driver

• InternetExplorer Driver

• Chrome Driver

• HTMLUNIT Driver

• Opera Driver

• Safari Driver

• Android Driver

• iPhone Driver

• EventFiringWebDriver

21. Which WebDriver implementation claims to be the fastest?

The fastest implementation of WebDriver is the HTMLUnitDriver. It is because the HTMLUnitDriver does not execute tests in the browser.

22. What are the Programming Languages supported by Selenium WebDiver?

• Java

• C#

• Python

• Ruby

• Perl

• PHP

23. What are the Operating Systems supported by Selenium WebDriver?

• Windows

• Linux

• Apple

24. What are the Open-source Frameworks supported by Selenium WebDriver?

• JUnit

• TestNG

• CUCUMBER

• JBHEAVE

25. What are the Locators available in Selenium?

Different types of locators are:

1 ID –

2 ClassName –

3 Name –

4 TagName –

5 LinkText –

6 PartialLinkText –

7 XPath –

8 CSS Selector –

26. What is a XPath?

XPath is used to locate the elements. Using XPath, we could navigate through elements and attributes in an XML document to locate web elements such as textbox, button, checkbox, Image etc., in a web page.

27. What is the difference between “/” and “//”

Single Slash “/” – Single slash is used to create XPath with absolute path i.e. the XPath would be created to start selection from the document node/start node

Double Slash “//” – Double slash is used to create XPath with relative path i.e. the XPath would be created to start selection from anywhere within the document.

28. What is the difference between Absolute Path and Relative Path?

Absolute XPath starts from the root node and ends with desired descendant element’s node. It starts with top HTML node and ends with input node. It starts with a single forward slash(/) as shown below.

/html/body/div[3]/div[1]/form/table/tbody/tr[1]/td/input

Relative XPath starts from any node in between the HTML page to the current element’s node(last node of the element). It starts with a single forward slash(//) as shown below.

//input[@id='email']

29. What is the difference between Assert and Verify in Selenium?

WebDriver driver = new FirefoxDriver();

instead of creating

FirefoxDriver driver = new FirefoxDriver();

driver.findElement(By.linkText(“Software Testing Material Website”)).click();

driver.get("http://www.softwaretestingmaterial.com");

boolean elePresent = driver.findElement(By.xpath("xpath")).isDisplayed();

boolean eleSelected= driver.findElement(By.xpath("xpath")).isSelected();

boolean eleEnabled= driver.findElement(By.xpath("xpath")).isEnabled();

Assert: In simple words, if the assert condition is true then the program control will execute the next test step but if the condition is false, the execution will stop and further test step will not be executed.

Verify: In simple words, there won’t be any halt in the test execution even though the verify condition is true or false.

For detailed post check the below link.

30. What are Soft Assert and Hard Assert in Selenium?

Soft Assert: Soft Assert collects errors during @Test Soft Assert does not throw an exception when an assert fails and would continue with the next step after the assert statement

Hard Assert: Hard Assert throws an AssertException immediately when an assert statement fails and test suite continues with next @Test

31. What are the verification points available in Selenium?

In Selenium IDE, we use Selenese Verify and Assert Commands as Verification points

In Selenium WebDriver, there is no built-in features for verification points. It totally depends on our coding style. some of the Verification points are

To check for page title

To check for certain text

To check for certain element (text box, button, drop down, etc.)

32. How to launch a browser using Selenium WebDriver?

WebDriver is an Interface. We create Object of a WebDriver Interface.

<2.53 – no geckodriver

3.x – geckodriver for FF

To launch Firefox Driver: WebDriver driver = new FirefoxDriver();

To launch Chrome Driver: WebDriver driver = new ChromeDriver();

To launch Internet Explorer Driver: WebDriver driver = new InternetExplorerDriver();

33. Is the FirefoxDriver a Class or an Interface?

FirefoxDriver is a Java class, and it implements the WebDriver interface.

34. What is the super interface of WebDriver?

SearchContext.

35. Explain the line of code Webdriver driver = new FirefoxDriver(); ?

‘WebDriver‘ is an interface and we are creating an object reference of type WebDriver instantiating an object of FirefoxDriver class.

36. We do create a reference variable ‘driver’ of type WebDriver

WebDriver driver = new FirefoxDriver();

instead of creating

FirefoxDriver driver = new FirefoxDriver();

What is the purpose of doing this way?

f we create a reference variable driver of type WebDriver then we could use the same driver variable to work with any browser of our choice such as IEDriver, SafariDriver etc.,

//FirefoxDriver driver = new FirefoxDriver();

ChromeDriver driver = new ChromeDriver();

driver.get(“http://www.google.com”);

WebDriver driver = new FirefoxDriver();

37. What are the different exceptions you have faced in Selenium WebDriver?

• WebDriverException

• TimeoutException

• NoAlertPresentException

• NoSuchWindowException

• NoSuchElementException

• StaleElementReferenceException

• IllegalStateException

38. How To Login Into Any Site If It Is Showing Any Authentication Pop-Up For Username And Password?

To do this we pass username and password with the URL

http://username:password@url

e.g. http://admin:admin123@xyz.com

39. What are the types of waits available in Selenium WebDriver?

In Selenium we could see three types of waits such as Implicit Waits, Explicit Waits and Fluent Waits.

• Implicit Waits –

• Explicit Waits –

• Fluent Waits –

• PageLoadTimeOut

• Thread.sleep() – static wait

40. What is Implicit Wait In Selenium WebDriver?

Implicit waits tell to the WebDriver to wait for a certain amount of time before it throws an exception. Once we set the time, WebDriver will wait for the element based on the time we set before it throws an exception. The default setting is 0 (zero). We need to set some wait time to make WebDriver to wait for the required time.

41. What is WebDriver Wait In Selenium WebDriver?

WebDriverWait is applied on a certain element with defined expected condition and time. This wait is only applied to the specified element. This wait can also throw an exception when an element is not found.

42. What is Fluent Wait In Selenium WebDriver?

FluentWait can define the maximum amount of time to wait for a specific condition and frequency with which to check the condition before throwing an “ElementNotVisibleException” exception.

43. How to input text in the text box using Selenium WebDriver?

By using sendKeys() method

WebDriver driver = new FirefoxDriver();

driver.get("https://www.gmail.com");

driver.findElement(By.xpath("xpath")).sendKeys("test");

44. How to input text in the text box without calling the sendKeys()?

// To initialize js object

JavascriptExecutor JS = (JavascriptExecutor)driver;

// To enter username

JS.executeScript("document.getElementById(‘User').value=test.com'");

45. How to clear the text in the text box using Selenium WebDriver?

By using clear() method

WebDriver driver = new FirefoxDriver();

driver.get("https://www.gmail.com");

driver.findElement(By.xpath("xpath\_of\_element1")).sendKeys("Software Testing Material Website");

driver.findElement(By.xpath("xpath\_of\_element1")).clear();

46. How to get a text of a web element?

By using getText() method

47. How to get an attribute value using Selenium WebDriver?

By using getAttribute(value);

48. How to click on a hyperlink using Selenium WebDriver?

We use click() method in Selenium to click on the hyperlink

driver.findElement(By.linkText(“Software Testing Material Website”)).click();

49. How to submit a form using Selenium WebDriver?

We use “submit” method on element to submit a form

driver.findElement(By.id("form\_1")).submit();

Alternatively, you can use click method on the element which does form submission

50. How to press ENTER key on text box In Selenium WebDriver?

To press ENTER key using Selenium WebDriver, We need to use Selenium Enum Keys with its constant ENTER.

driver.findElement(By.xpath("xpath")).sendKeys(Keys.ENTER);

51. How to pause a test execution for 5 seconds at a specific point?

By using java.lang.Thread.sleep(long milliseconds) method we could pause the execution for a specific time. To pause 5 seconds, we need to pass parameter as 5000 (5 seconds)

Thread.sleep(5000)

52. Is Selenium Server needed to run Selenium WebDriver Scripts?

When we are distributing our Selenium WebDriver scripts to execute using Selenium Grid, we need to use Selenium Server.

53. What happens if I run this command. driver.get(“www.softwaretestingmaterial.com”) ;

An exception is thrown. We need to pass HTTP protocol within driver.get() method.

driver.get("http://www.softwaretestingmaterial.com");

54. What is the alternative to driver.get() method to open an URL using Selenium WebDriver?

Alternative method to driver.get(“url”) method is driver.navigate.to(“url”)

55. What is the difference between driver.get() and driver.navigate.to(“url”)?

driver.get(): To open an URL and it will wait till the whole page gets loaded

driver.navigate.get(): To navigate to an URL and It will not wait till the whole page gets loaded

56. Can I navigate back and forth in a browser in Selenium WebDriver?

We use Navigate interface to do navigate back and forth in a browser. It has methods to move back, forward as well as to refresh a page.

driver.navigate().forward(); – to navigate to the next web page with reference to the browser’s history

driver.navigate().back(); – takes back to the previous webpage with reference to the browser’s history

driver.navigate().refresh(); – to refresh the current web page thereby reloading all the web elements

driver.navigate().to(“url”); – to launch a new web browser window and navigate to the specified URL

57. What are the different types of navigation commands?

Refer above question (Can I navigate back and forth in a browser)

58. How to fetch the current page URL in Selenium?

To fetch the current page URL, we use getCurrentURL()

driver.getCurrentUrl();

59. How can we maximize browser window in Selenium?

To maximize browser window in selenium we use maximize() method. This method maximizes the current window if it is not already maximized

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

60. How to delete cookies in Selenium?

To delete cookies we use deleteAllCookies() method

driver.manage().deleteAllCookies();

61. What are the ways to refresh a browser using Selenium WebDriver?

There are multiple ways to refresh a page in selenium

• Using driver.navigate().refresh() command as mentioned in the question 45

• Using driver.get(“URL”) on the current URL or using driver.getCurrentUrl()

• Using driver.navigate().to(“URL”) on the current URL or driver.navigate().to(driver.getCurrentUrl());

• Using sendKeys(Keys.F5) on any textbox on the webpage

62. What is the difference between driver.getWindowHandle() and driver.getWindowHandles() in Selenium WebDriver?

driver.getWindowHandle() – It returns a handle of the current page (a unique identifier)

driver.getWindowHandles() – It returns a set of handles of the all the pages available.

63. What is the difference between driver.close() and driver.quit() methods?

Purpose of these two methods (driver.close and driver.quit) is almost same. Both allow us to close a browser but still, there is a difference.

driver.close(): To close current WebDriver instance

driver.quit(): To close all the opened WebDriver instances

64. What is the difference between driver.findElement() and driver.findElements() commands?

The difference between driver.findElement() and driver.findElements() commands is-

• findElement() returns a single WebElement (found first) based on the locator passed as parameter. Whereas findElements() returns a list of WebElements, all satisfying the locator value passed.

• Syntax of findElement()-

• WebElement textbox = driver.findElement(By.id(“textBoxLocator”));

• Syntax of findElements()-

• List <WebElement> elements = element.findElements(By.id(“value”));

• Another difference between the two is- if no element is found then findElement() throws NoSuchElementException whereas findElements() returns a list of 0 elements.

List<WebElement> list = driver.findElements(By.tagName(“a”));

Sop(list.size()); ==40

65. How to find whether an element is displayed on the web page?

WebDriver facilitates the user with the following methods to check the visibility of the web elements. These web elements can be buttons, drop boxes, checkboxes, radio buttons, labels etc.

1 isDisplayed()

2 boolean elePresent = driver.findElement(By.xpath("xpath")).isDisplayed();

1 isSelected()

2 boolean eleSelected= driver.findElement(By.xpath("xpath")).isSelected();

1 isEnabled()

2 boolean eleEnabled= driver.findElement(By.xpath("xpath")).isEnabled();

66. How to select a value in a dropdown?

By using Select class

WebElement mySelectElement = driver.findElement(By.name("dropdown"));

Select dropdown = new Select(mySelectElement);

dropdown.selectByVisibleText(Text);

dropdown.selectByIndex(Index);

dropdown.selectByValue(Value);

67. How to capture Screenshot in Selenium WebDriver?

By using TakesScreenshot Interface

In Selenium 3, we may face few issues while capturing Screenshots. To overcome we use aShot utility. Click on below links to see posts related to the normal way of capturing a screenshot and capturing a screenshot using aShot utility.

68. How to mouse hover on a web element using WebDriver?

By using Actions class

WebElement ele = driver.findElement(By.xpath("xpath"));

//Create object 'action' of an Actions class

Actions action = new Actions(driver);

//Mouseover on an element

action.moveToElement(ele).build().perform();

69. How can we handle web based pop-up?

To handle alerts popups we need to do switch to the alert window and call Selenium WebDriver Alert API methods.

70. How can we handle windows based pop up?

Selenium doesn’t support windows based applications. It is an automation testing tool which supports only web application testing. We could handle windows based popups in Selenium using some third party tools such as AutoIT, SIKULI, Robot class etc.

71. How to handle hidden elements in Selenium WebDriver?

It is one of the most important selenium interview questions.

We can handle hidden elements by using javaScript executor

(JavascriptExecutor(driver)).executeScript("document.getElementsByClassName(ElementLocator).click();");

72. How can you find Broken Links in a page using Selenium WebDriver?

73. How to find more than one web element in the list?

// To store the list

List <WebElement> eleList = driver.findElements(By.xpath("xpath"));

// To fetch the size of the list

int listSize = eleList.size();

//for loop

for (int i=0; i<listSize; i++)

{

// Clicking on each link

links.get(i).click();

// Navigating back to the previous page that stores the links

driver.navigate().back();

}

74. How to read a JavaScript variable in Selenium WebDriver?

By using JavascriptExecutor

// To initialize the JS object.

JavascriptExecutor JS = (JavascriptExecutor) webdriver;

// To get the site title.

String title = (String)JS.executeScript("return document.title");

System.out.println("Title of the webpage : " + title);

75. How do you read test data from excels?

Test data can efficiently be read from excel using JXL or POI API. POI API has many advantages than JXL.

76. Is it possible to automate the captcha using Selenium?

No, It’s not possible to automate captcha and bar code reader.

77. List some scenarios which we cannot automate using Selenium WebDriver?

1. Bitmap comparison Is not possible using Selenium WebDriver

2. Automating Captcha is not possible using Selenium WebDriver

3. We can not read bar code using Selenium WebDriver

4. windows OS based pop ups

5. third party calendars/element

6. Image

7. Word/PDF

78. What is Object Repository in Selenium WebDriver?

Object Repository is used to store element locator values in a centralized location instead of hard coding them within the scripts. We do create a property file (.properties) to store all the element locators and these property files act as an object repository in Selenium WebDriver.

79. How can you use the Recovery Scenario in Selenium WebDriver?

By using “Try Catch Block” within Selenium WebDriver Java tests.

try {

driver.get("www.xyz.com");

}catch(Exception e){

System.out.println(e.getMessage());

}

80. How to Upload a file in Selenium WebDriver?

There are two cases which are majorly used to upload a file in Selenium WebDriver such as using SendKeys Method and using AutoIT Script.

Browser Button – type =“file”

SendKeys (c:\\test\\naveen.jpg);

81. How to Download a file in Selenium WebDriver?

By using AutoIT script, we could download a file in Selenium WebDriver.

82. How to run Selenium WebDriver Test from the command line?

Class A{

}

cd c

c: javac A.java

c: java A.java

java org.testng.TestNG C:\Users \Desktop\ \workspace\testing\testng.xml

83. How to switch between frames in Selenium?

By using the following code, we could switch between frames.

driver.switchTo().frame();

84. How to connect a Database in selenium?

As we all know Selenium WebDriver is a tool to automate User Interface. We could only interact with Browser using Selenium WebDriver.

We use JDBC Driver to connect the Database in Selenium (While using Java Programming Language).

85. How To Resize Browser Window Using Selenium WebDriver?

To resize the browser window to particular dimensions, we use ‘Dimension’ class to resize the browser window.

//Create object of Dimensions class

Dimension d = new Dimension(480,620);

//Resize the current window to the given dimension

driver.manage().window().setSize(d);

86. How To Scroll Web Page Down Or UP Using Selenium WebDriver?

JavaScript scrollBy() method scrolls the document by the specified number of pixels.

87. How To Perform Right Click Action (Context Click) In Selenium WebDriver?

We use Actions class in Selenium WebDriver to do Right-Click (Context Click) action.

action.contextClick(driver.findElement(By.xpsjht()).build().perform();

88. How To Perform Double Click Action In Selenium WebDriver?

We use Actions class to do Double click action in selenium.

89. How To Perform Drag And Drop Action in Selenium WebDriver?

We use Actions class to do Drag And Drop Action

90. How To Highlight Element Using Selenium WebDriver?

By using JavascriptExecutor interface, we could highlight the specified element

Challenges faced using selenium automation testing, and how to solve them

1. Image or text overlapping issue

2. No facility to deal with Captcha, Bar Code

3. Doesn’t support any non web based (Like Win 32, Java Applet, Java Swing, .Net Client Server etc) applications

4. When you compare selenium with QTP, Silk Test, Test Partner and RFT, there are many challenges in terms of maintainability of the test cases

5. Since Selenium is a freeware tool, there is no direct support if one is in trouble with the support of applications

6. Bitmap comparison is no t supported by Selenium

7. Any reporting related capabilities, you need to depend on third party tools

8. You need to learn any one of the native language like (.Net, Java, Perl, Python, PHP, Ruby) to work efficiently

9. Difficult to identify dynamic objects

10. Working with frames

11. Selenium test playback is slow (IDE)

12. JavaScript sandbox, Flash, Applets, Silverlight, and HTML 5’s Canvas all present problems in Selenium

13. Dealing with pop-up windows: Selenium can sometimes fail to record common popups in web apps. To handle any kind of alert popup, you can apply a getAlert function. Before actually running the script, you must import a package that can generate a WebDriver script for handling alerts. The efficient interface brings with it the following commands: void dismiss(), void accept (), getText(), void sendKeys(String stringToSend). The first two basically click on the “cancel” and “OK” buttons respectively on a popup window.

14. Timeout resulting from synchronization problems: One should ideally use selenium.IsElementPresent(locator) to verify that the object is in a loop with Thread.Sleep

15. Testing Flash apps: To automate flash apps with Selenium, one can use Flex Monkium. The application source code must be compiled with the swc files generated by Flex Monkium. Then the app and the Selenium IDE are connected, and the tests can be recorded with IDE.

16. Unexpected error launching Internet Explorer. Browser zoom level should be set to 100% by default for the IE browser to overcome this error

17. Protected Mode must be set to the same valueerror occurs when trying to run Selenium WebDriver on a fresh Windows machine. This issue can be fixed by using capabilities as below when launching IE

18. Cross Browser Testing Issues

19. Ajax Components

Implement Test Automation from Scratch?

Step 1: We need to identify which type of testing / test cases / test Scenarios we want to automate.

Step 2: Identify the right automation tool (e.g. Selenium / UFT / Test Complete etc.)

Step 3: Design the automation framework (Data Driven / Keyword Driven/ Hybrid Framework etc)

Step 4: Create the utility files and environment files.

Step 5: Identify how to prepare test report , logging part.

Step 6: Write automated test scripts

Step 7: Time allocation for Test Execution,enhancing and maintaining the automated test scripts.

What are key features of good automation framework?

The good features of any automation framework are:

1. Reusability

2. Consistency

3. Independent scripts

4. Logger

5. Reporting

6. Integration

Can you mention different types of popular Automation Frameworks?

There are 5 popular automation frameworks.

1. Modular Framework

2. Data Driven Framework

3. Keyword Driven Framework

4. Hybrid Framework

5. BDD Framework ( Behaviour driven Development )

What type of test cases should we automate?

Answer :

We should automate those test cases which are executed in a repetitive manner.

For example:

1. Regression test cases

2. Smoke test cases

3. Sanity test cases

What types of test cases should we skip to automate?

Answer:

1. We should not pick those test cases to automate which are run rarely.

2. We should not pick those test cases which are run one time.

3. We should not automate test cases when we are doing exploratory testing.

4. If the application part is not stable, we should not automate those test cases.

How To Explain Selenium Test Automation Framework In The Interview ?

1. Type of Framework (e.g. hybrid framework )

2. Test Base Class

3. Element locators handling ( e.g Properties file / Page Object Model)

4. Config files ( e.g. which contains application url, username, password, test environment, browser type, screenshot path etc.)

5. Generic Functions Library / Utils (e.g. Excel reader )

6. TestNG annotations

7. Tests Parameterization / data driven testing

8. Reporting part of your framework ( e.g Extent reports )

9. Logger in your framework ( e.g log4j )

10. Build tools (e.g Maven , Gradle )

11. Continuous Integration ( e.g. Jenkins , Teamcity )

12. Version control tool ( e.g. GIT )

What is TestNG ?

TestNG is a testing framework. NG stands for Next Generation. In TestNG, there are different annotations available. A TestNG test can be configured by @BeforeXXX and @AfterXXX annotations which allows to perform some Java logic before and after a certain point A suite is represented by one XML file. It can contain one or more tests and is defined by the suite tag. A test is represented by test and can contain one or more TestNG classes. A TestNG class is a Java class that contains at least one TestNG annotation. It is represented by the class tag and can contain one or more test methods. A test method is a Java method annotated by @Test in your source.

TestNG Interview Questions -Naveen Khunteta

1. What is TestNG?

TestNG is a testing framework designed to simplify a broad range of testing needs, from unit testing to integration testing. For more information.

2. What are the advantages of TestNG?

· TestNG provides parallel execution of test methods

· It allows to define dependency of one test method over other method

· It allows to assign priority to test methods @Test(priority=1, groups = “Login”)

· It allows grouping of test methods into test groups

· It has support for parameterizing test cases using @Parameters annotation

· It allows data driven testing using @DataProvider annotation

· It has different assertions that helps in checking the expected and actual results

· Detailed (HTML) reports

· Testng Listeners

3. What are the annotations available in TestNG?

@BeforeTest

@AfterTest

@BeforeClass

@AfterClass

@BeforeMethod

@AfterMethod

@BeforeSuite

@AfterSuite

@BeforeGroups

@AfterGroups

@Test

@DataProvider

@Parameters

Practical Example

4. Can you arrange the below testng.xml tags from parent to child?

<test>

<suite>

<class>

<methods>

<classes>

The correct order of the TestNG tags are as follows

<suite>

<test>

<classes>

<class>

<methods>

5. How to create and run testng.xml ?

In TestNG framework, we need to create testng.xml file to create and handle multiple test classes. We do configure our test run, set test dependency, include or exclude any test, method, class or package and set priority etc in the xml file.

View Complete Post

6. What is the importance of testng.xml file?

In a Selenium TestNG project, we use testng.xml file to configure the complete test suite in a single file. Some of the features are as follows.

• testng.xml file allows to include or exclude the execution of test methods and test groups

• It allows to pass parameters to the test cases

• Allows to add group dependencies

• Allows to add priorities to the test cases

• Allows to configure parallel execution of test cases

• Allows to parameterize the test cases

7. How to pass parameter through testng.xml file to a test case?

We could define the parameters in the testng.xml file and then reference those parameters in the source files.

x

Create a java test class, say, ParameterizedTest.java and add a test method say parameterizedTest() to the test class. This method takes a string as input parameter. Add the annotation @Parameters(“browser”) to this method.

// TestNG Interview Questions

public class ParameterizedTest {

@Test

@Parameters("browser")

public void parameterizedTest(String browser){

if(browser.equals("firefox")){

System.out.println("Open Firefox Driver");

}else if(browser.equals("chrome")){

System.out.println("Open Chrome Driver");

}

}

}

The parameter would be passed a value from testng.xml, which we will see in the next step.

We could set the parameter using the below syntax in the testng.xml file.

<parameter name="browser" value="firefox"/>

Here, name attribute represents the parameter name and value represents the value of that parameter.

Practical Example

8. What is TestNG Assert and list out common TestNG Assertions?

TestNG Asserts help us to verify the condition of the test in the middle of the test run. Based on the TestNG Assertions, we will consider a successful test only if it is completed the test run without throwing any exception.

Some of the common assertions supported by TestNG are

• assertEqual(String actual,String expected)

• assertEqual(String actual,String expected, String message)

• assertEquals(boolean actual,boolean expected)

• assertTrue(condition)

• assertTrue(condition, message)

• assertFalse(condition)

• assertFalse(condition, message)

For Complete Post

9. What is Soft Assert in TestNG?

Soft Assert collects errors during @Test. Soft Assert does not throw an exception when an assert fails and would continue with the next step after the assert statement.

If there is any exception and you want to throw it then you need to use assertAll() method as a last statement in the @Test and test suite again continue with next @Test as it is.

Practical Example

T1(){

1 sendkeys()

2 HA –passed à 3 else à terminate test case / failed

3 SA -- passed

4 SA --- failed à 5

5 SA – passed à 6

6 SA – Failed

softAssert.assertAll();

}

10. What is Hard Assert in TestNG?

Hard Assert throws an AssertException immediately when an assert statement fails and test suite continues with next @Test

Practical Example

11. What is exception test in TestNG?

TestNG gives an option for tracing the Exception handling of code. You can verify whether a code throws the expected exception or not. The expected exception to validate while running the test case is mentioned using the expectedExceptions attribute value along with @Test annotation.

Practical Example

@Test

t1(expectedExceptions = ElementNotFoundException){}

12. How to set test case priority in TestNG?

We use priority attribute to the @Test annotations. In case priority is not set then the test scripts execute in alphabetical order.

// TestNG Interview Questions

package TestNG;

import org.testng.annotations.\*;

public class PriorityTestCase{

@Test(priority=0)

public void testCase1() {

system.out.println("Test Case 1");

}

@Test(priority=1)

public void testCase2() {

system.out.println("Test Case 2");

}

}

Output:

Test Case 1

Test Case 2

13. What is Parameterized testing in TestNG?

Parameterized tests allow developers to run the same test over and over again using different values.

There are two ways to set these parameters:

• using testng.xml – Practical Example

• using Data Providers – Practical Example

14. How can we create data driven framework using TestNG?

By using @DataProvider annotation, we can create a Data Driven Framework.

// TestNG Interview Questions

@DataProvider(name="getData")

public Object[][] getData(){

//Object [][] data = new Object [rowCount][colCount];

Object [][] data = new Object [2][2];

data [0][0] = "FirstUid";

data [0][1] = "FirstPWD";

data[1][0] = "SecondUid";

data[1][1] = "SecondPWD";

return data;

}

Practical Example

15. How to run a group of test cases using TestNG?

TestNG allows you to perform sophisticated groupings of test methods. Not only can you declare that methods belong to groups, but you can also specify groups that contain other groups. Then TestNG can be invoked and asked to include a certain set of groups (or regular expressions) while excluding another set. This gives you maximum flexibility in how you partition your tests and doesn’t require you to recompile anything if you want to run two different sets of tests back to back.

Groups are specified in your testng.xml file and can be found either under the <test> or <suite> tag. Groups specified in the <suite> tag apply to all the <test> tags underneath.

@Test (groups = { "smokeTest", "functionalTest" })

public void loginTest(){

System.out.println("Logged in successfully");

}

Practical Example

16. How to create Group of Groups in TestNG?

Groups can also include other groups. These groups are called MetaGroups. For example, you might want to define a group all that includes smokeTest and functionalTest. Let’s modify our testng.xml file as follows:

<groups>

<define name="all">

<include name="smokeTest"/>

<include name="functionalTest"/>

</define>

<run>

<include name="all" />

</run>

</groups>

Practical Example

17. How to run test cases in parallel using TestNG?

we can use “parallel” attribute in testng.xml to accomplish parallel test execution in TestNG

The parallel attribute of suite tag can accept four values:

tests – All the test cases inside <test> tag of testng.xml file will run parallel

classes – All the test cases inside a java class will run parallel

methods – All the methods with @Test annotation will execute parallel

instances – Test cases in same instance will execute parallel but two methods of two different instances will run in different thread.

<suite name="softwaretestingmaterial" parallel="methods">

Practical Example

18. How to exclude a particular test method from a test case execution?

By adding the exclude tag in the testng.xml

<classes>

<class name="TestCaseName">

<methods>

<exclude name="TestMethodNameToExclude"/>

</methods>

</class>

</classes>

19. How to exclude a particular test group from a test case execution?

By adding the exclude tag in the testng.xml

<groups>

<run>

<exclude name="TestGroupNameToExclude"/>

</run>

</groups>

Practical Example

20. How to disable a test case in TestNG ?

To disable the test case we use the parameter enabled = false to the @Test annotation.

@Test(enabled = false)

21. How to skip a @Test method from execution in TestNG?

By using throw new SkipException()

Once SkipException() thrown, remaining part of that test method will not be executed and control will goes directly to next test method execution.

throw new SkipException("Skipping - This is not ready for testing ");

Practical Example

22. How to Ignore a test case in TestNG?

To ignore the test case we use the parameter enabled = false to the @Test annotation.

@Test(enabled = false)

Practical Example

23. How TestNG allows to state dependencies?

TestNG allows two ways to declare the dependencies.

Using attributes dependsOnMethods in @Test annotations – Practical Example Using attributes dependsOnGroups in @Test annotations – Practical Example

24. What are the different ways to produce reports for TestNG results?

TestNG offers two ways to produce a report.

Listeners implement the interface org.testng.ITestListener and are notified in real time of when a test starts, passes, fails, etc…

Reporters implement the interface org.testng.IReporter and are notified when all the suites have been run by TestNG. The IReporter instance receives a list of objects that describe the entire test run.

25. What is the use of @Listener annotation in TestNG?

TestNG listeners are used to configure reports and logging. One of the most widely used listeners in testNG is ITestListener interface. It has methods like onTestStart, onTestSuccess, onTestFailure, onTestSkipped etc. We should implement this interface creating a listener class of our own. Next we should add the listeners annotation (@Listeners) in the Class which was created.

Practical Example

26. How to write regular expression In testng.xml file to search @Test methods containing “smoke” keyword.

Regular expression to find @Test methods containing keyword “smoke” is as mentioned below.

<methods>

<include name=".\*smoke.\*"/>

</methods>

27. What is the time unit we specify in test suites and test cases?

We specify the time unit in test suites and test cases is in milliseconds.

28. List out various ways in which TestNG can be invoked?

TestNG can be invoked in the following ways

• Using Eclipse IDE

• Using maven/ant build tool

• From the command line

• Using IntelliJ’s IDEA

29. How To Run TestNG Using Command Prompt?

C: test

Java c://testing.jar test.java

30. What is the use of @Test(invocationCount=x)?

The invocationcount attribute tells how many times TestNG should run a test method

@Test(invocationCount = 10)

public void testCase1(){

In this example, the method testCase1 will be invoked ten times

31. What is the use of @Test(threadPoolSize=x)?

The threadPoolSize attribute tells to form a thread pool to run the test method through multiple threads.

Note: This attribute is ignored if invocationCount is not specified

@Test(threadPoolSize = 3, <code class="plain">invocationCount = </code><code class="value">10</code>) public void testCase1(){

In this example, the method testCase1 will be invoked from three different threads

32. What does the test timeout mean in TestNG?

The maximum number of milliseconds a test case should take.

@Test(threadPoolSize = 3, invocationCount = 10, timeOut = 10000)

public void testCase1(){

In this example, the function testCase1 will be invoked ten times from three different threads. Additionally, a time-out of ten seconds guarantees that none of the threads will block on this thread forever.

33. What are @Factory and @DataProvider annotation?

@Factory: A factory will execute all the test methods present inside a test class using a separate instance of the respective class with different set of data.

@DataProvider: A test method that uses DataProvider will be executed the specific methods multiple number of times based on the data provided by the DataProvider. The test method will be executed using the same instance of the test class to which the test method belongs.

Agile Testing Interview Questions and Answers- Naveen Khunteta

Agile Testing Interview Questions and Answers will help you prepare for Agile methodology and agile process interviews for testers or developers.

Q#1. What is Agile Testing?

Ans. Agile Testing is a practice that a QA follows in a dynamic environment where testing requirements keep changing according to the customer needs. It is done parallel to the development activity where testing team receives frequent small codes from the development team for testing.

Q#2. What is the difference between burn-up and burn-down chart?

Ans. Burn-up and burn-down charts are used to keep track the progress of the project.

Burn-up charts represent how much work has been completed in any project whereas Burn-down chart represents the remaining work in a project.

Q#3. Define the roles in Scrum?

Ans. There are mainly three roles that a Scrum team have:

1 Project Owner – who has the responsibility of managing product backlog. Works with end users and customers and provide proper requirement to the team to build the proper product.

2 Scrum Master – who works with scrum team to make sure each sprint gets complete on time. Scrum master ensure proper work flow to the team.

3 Scrum Team – Each member in the team should be self-organized, dedicated and responsible for high quality of the work.

Q#4. What is Product backlog & Sprint Backlog?

Ans. Product backlog is maintained by the project owner which contains every feature and requirement of the product.

Sprint backlog can be treated as subset of product backlog which contains features and requirements related to that particular sprint only.

Q#5. Explain Velocity in Agile?

Ans. Velocity is a metric that is calculated by addition of all efforts estimates associated with user stories completed in a iteration. It predicts how much work Agile can complete in a sprint and how much time will require to complete a project.

Q#6. Explain the difference between traditional Waterfall model and Agile testing?

Ans. Agile testing is done parallel to the development activity whereas in traditional waterfall model testing is done at the end of the development.

As done in parallel, agile testing is done on small features whereas in waterfall model testing is done on whole application.

Q#7. Explain Pair Programming and its benefits?

Ans. Pair programming is a technique in which two programmer works as team in which one programmer writes code and other one reviews that code. They both can switch their roles.

Benefits:

1 Improved code quality: As second partner reviews the code simultaneously, it reduces the chances of mistake.

2 Knowledge transfer is easy: One experience partner can teach other partner about the techniques and codes.

Q#8. What is re-factoring?

Ans. Modification of the code without changing its functionality to improve the performance is called re-factoring.

Q#9. Explain the Iterative and Incremental Development in Agile?

Ans. Iterative Development: Software is developed and delivered to customer and based on the feedback again developed in cycles or release and sprints. Say in Release 1 software is developed in 5 sprints and delivered to customer. Now customer wants some changes, then development team plan for 2nd release which can be completed in some sprints and so on.

Incremental Development:Software is development in parts or increments. In each increment a portion of the complete requirement is delivered.

Q#10. How do you deal when requirements change frequently?

Ans. This question is to test the analytical capability of the candidate. Answer can be-

Work with PO to understand the exact requirement to update test cases. Also understand the risk in changing the requirement. Apart from this one should be able to write generic test plan and test cases. Don’t go for the automation until requirements are finalized.

Q#11. What is a test stub?

Ans. A small code which mimics a specific component in the system and can replace it. Its output is same as the component it replaces.

Q#12. What qualities should a good Agile tester have?

Ans.

1 Agile tester should be able to understand the requirements quickly.

2 Agile tester should know Agile concepts and principals.

3 As requirements keep changing, he should understand the risk involve in it.

4 Agile tester should be able to prioritize the work based on the requirements.

5 Communication is must for a Agile tester as it requires a lot of communication with developers and business associates.

Q#13. What is difference between Epic, User stories & Tasks?

Ans. User Stories:User Stories defines the actual business requirement. Generally created by Business owner.

Task: To accomplish the business requirements development team create tasks.

Epic: A group of related user stories is called an Epic.

Q#14. What is a Task board in Agile?

Ans. Task board is dash board which shows progress of the project. It contains:

1 User Story: which has the actual business requirement.

2 To Do: Tasks that can be worked on.

3 In Progress: Tasks in progress.

4 To Verify: Tasks pending for verification or testing

5 Done: Completed tasks.

Q#15. What is Test Driven Development (TDD)?

Ans. It is Test-first development technique in which we add a test first before we write a complete production code. Next we run the test and based on the result refactor the code to fulfill the test requirement.

Q#16. How QA can add a value to an agile team?

Ans. QA can provide a value addition by thinking differently about the various scenarios to test a story. They can provide quick feedback to the developers whether new functionality is working fine or not.

Q#17. What is Scrum ban?

Ans. It is a software development model which is combination of scrum and kanban. Scrumban is considered for maintenance projects in which there are frequent changes or unexpected user stories. It can reduce the minimum completion time for user stories.

rating system.

Q#19. What is Zero sprint in Agile?

Ans. It can be defined as pre step to the first sprint. Activities like setting development environment, preparing backlog etc needs to be done before starting of the first sprint and can be treated as Sprint zero.

Q#20. What is Spike?

Ans. There may be some technical issues or design problem in the project which needs to be resolved first. To provide the solution of these problem “Spikes” are created. Spikes are of two types- Functional and Technical.

Q#21. Name some Agile quality strategies.

Ans. Some Agile quality strategies are-

1 Re-factoring

2 Small feedback cycles

3 Dynamic code analysis

4 Iteration

5 Bug Bash

Q#22. What is importance of daily stand up meeting?

Ans. Daily stand up meeting is essential for any team in which-

1 Team discuss about how much work has been completed.

2 What are the plans to resolve technical issues.

3 What steps need to done to complete the projects etc.

Q#23. What is tracer bullet?

Ans. It can be defined as spike with the current architecture or the current set of best practices.

The purpose of a tracer bullet is to examine how an end-to-end process will work and examine feasibility.

Q#24. How the velocity of sprint is measured?

Ans. If capacity is measured as a percentage of a 40 hours weeks then completed story points \* team capacity

If capacity is measured in man hours then Completed story points / team capacity

Softway Solutions

JAVA

1.what is constructor?use of constructor in class?

2.why we need to compile a program?

3.upcasting in java?

4.polymorphism

5.singleTon class

6.overloading method

Selenium

1.what is testng?use of testng in framework?

2.how to handle alert,file upload popups

3.method overloading in Selenium?

4.access modifiers public,private,protected use in selenium

5.What is POM.XML

6.difference between .xml & .html

7.handling frames in selenium

Indeecom Global Services Interview questions

JAVA

1.what is polymorphism?types of polymorphism?

2.Access Modiefiers(Private,public,protected)

3.Object life cycle architecture?

4.singleTON Class?

5.Innerclass &Anonymous class?

6.how to print without main method "hello"?

7.Method overloading & overriding & Inheritance?

Selenium

1.what is selenium webdriver?advantage of against RC,IDE?

2.How to handle javascript popup?

3.How to handle iframes?

4.how to hadle filedownload popup?

5.what is the use of TestngListeners?

6.what is POM.XML?

7.what is ant & use in framework?

HCL -Automation testing and Manual testing

Automation Testing

------------------

1. Write a program to print your name in Java?

2. In the above program what does public static void main signify?

3. Write a program to add elements to a list?

4. What datatype can be added to a List?

5. How we can specify datatype of specific type in List?

6. Write a program to iterate through a List?

7. What is the difference between List and Map?

9. In Selenium, what is WebDriver - a class or interface?

10. Why we can't create instance of WebDriver directly?

11. What is the difference between findElement and findElements? Explain scenario when it is used?

12. Do you know to create a Framework for test execution ?

13. What is the version of Selenium used?

14. In Selenium write code to access FirefoxDriver?

Manual Testing

--------------

1. What is the difference between Whitebox and Blackbox testing?

2. What is Agile Methodology? What is Scrum,Sprint?Have you used it?

3. Who will be involved in Agile testing meeting?

4. What is DSR ,WSR?(status reports)

5. Have you done monthly Test plan?

6. Do you know Web testing?

7. Write a program to print to select all columns from Employees table and Departments table where Department name is "Testing"

8. How many years you have in Manual testing,Automation testing?

9. Have you done testing for Redbus application?

10. Write out some positive and negative scenarios to test "Add Friend" feature in Facebook?

11. What is the test design you have used to write test cases?

12. Imagine you are given a Bank Account Login Page. (userid,password,account no, Submit button). List out two positive scenarios to test it?

EBay:

What all collections you have used

What is the approch for HybridFW you used to develop.

Why KeywordDriven framework you have used.

Why Set<Iterator> you have used for handling window Handles

Internal Implementation of HashMap,ArrayList and Set Operator if you know ?

Have you written any Utilities.?

What will PageObject model will consists of ,how do you specify the elements in it.

Where all you have used ArrayList,Set and HashMap in your application.

What kind of dependencies you have added in the Maven and for what

What is your roles and responsibilities for automation.

Explain driver.getWindowHandles() in detail,how it will function.

Explain each usage of collection used in your project

what is smoke testing?

how can you test Mouse?

expline about defect tracking?

differance between sanity & smoke testing?

what is compatibility testing?

What is acceptance testing ?when we do?

difference between bug & defect?s?

what is automation test life cycle?

what is usability testing?

3. write functional test cases for " you have three field A, B, C and one ok button field can take only two character if by using the fields the triangle is formed then ok button must display valid triangle else invalid triangle.

5. some logical puzzles he asked like :-

a> how to measure 4 lt. if u have 2 container of 5 and 3 lt.

b> 3 bulb and 3 switch puzzle

c> car parking no. puzzle

6. what is the use of cookies and cache.

7. how to remove cookies

9. if you have opened any web application and it is broken means it has changed its layout and other thing which type of testing you will perform to check this

1)Which application you work on : Web Application or Windows Application?

2)WAP on java: fibonacci series, reverse a string, reverse a string using recursion?

3)Maven - What is Maven , Why do we use it and How do we use it

4)what is maven life cycle?

5)What is StringBuffer and StringBuilder

6)Explain Parallel exection using grid ?

7)Give examples of Polymorphism,Abstraction(simple code explaination)

8)why do we use singleton class?

9)Explain your framework

10)what is the use of PageFactory.initElements?Can we implement it using PageFactory.initElements or @FindBy?

11)How do we clean the Maven environment?

12)A particular list of buttons are there?Write the xpath for it?

13)How do you configure testNG?what do you write in the .bat file?

LATEST HAPPIEST MINDS:

Happiest Minds:

1.Explain your prevoius project, ur role

2.how u rate ur self in java?

3.Overloading and Overriding ...when u use overLoading and Overriding.

4.What is singleton and have used singleton concept in ur project ??

5.What is TestNG framework and what annotations u have worked on.

6.Write a syntax for the dataprovider in TestNg?

7.What are the frameworks u are aware of?

8.What are issues u faced in ur project while automation

9.Have u followed the agile methodology??What will u do if u find the bug at the end of the sprint and how fast will u make sure that the bug is fixed and verified.

10.Have u done compatibility testing ?? what all browsers u have used?

11.How do u run the scripts on other browser like IE,Chrome,write the code

12.what are exceptions u have handled in selenium webdriver

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Cognizant Interview Question

1.Wat is the diff b/w WebDriver Listerner and TestNG Listener

2.diff b/w Assert and verify

3.count only the non duplicate words in the string

4.Frame Work and advantage of PageFactory classes

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

HCL Interview Questions

1.which frame work ur using and explain Framework

2.Questions on Nested frames Concept (Scenario given)

3.How ur using Agile Methodology in ur Project?

4.xpath Syntax

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

HCL interview Question

===================================

1st technical

From Java

=============

1.What is the Difference between final,finally,finalize

2.what is the difference between Call by value and call by referance

3.How to find out the length of the string without using length function

4.How to find out the part of the string from a string

5.difference between throw & throws

6.What is binding(Early and Late binding) \*\*

He give Programes

-----------------------------------

1.Reverse a number

2.1,2,3,4,5,65,76,5,,4,33,4,34,232,3,2323,

find the biggest number among these

simple string programe.

what is exception, types of exception

From manual

----------------------------------

what is the testcase technique

why we write test case.

bug life cycle

what are the different status of bug

what is the different between functional and smoke testing

what is STLC.

from Selenium

=======================================

what is testng and its advantage

how to handle SSl/

how to handle alert

how to take screenshot

give the diagram write a scrpt..

tell me about Project .What are the challenge face during project

what is the difference between RC and webdriver

what is freamwork explain it.

why we use wait statement.

2nd technical

he gives a application & tell to write the scenario

some manual testing concepts.

===================================

CaterPiller

1.Diff b/w final finally and finalize

2.how you will avoid object cloneable

3.wat is synchronize methods

4.wat finalize method will do

5.Quesion on Joints

6.Defect life Cycle

7.wat is Smoke Testing and Regression testing

8.Test case Design Techniques

9.how to run tests parallely in different browsers

10.Explain hashing technique\*\*\*

11.How u will return multiple values in a method

EF Systems

1.how to run tests parallely in different browsers

2.java program to reverse String

3.pgm to sort array in ascending order

4.diff b/w implicit wait and explicit wait

5.Test case Design Techniques

6.dif b/w delete drop and truncate

7.wat is inheritence polymorphism and encapsulation

8.wat is interface

Happiest Minds

1.Explain ur FramwWork

2.How u will run tests parallely

3.pgm to search ipod in flipkart and sort the results in ascending order based on price

4.give examples for Checked exception and Runtime Exception.

5.Some time application takes 2 sec to load some time 30 sec some times more than 5 min how u will handle this.\*\*

6.wat is maven and wat is ant

COGNIZANT Questions:

1. tell me abt urself

2. what is stlc

3. what is test planning

4. defect life cycle

5. what is inheritance

6. method overloading and overriding

7. framework & framework used in the company

8. what is Parametisation and how do you use it in TestNG

9. how do you execute the tests based on priority

10. what are the annotations

11. what is the order of executing the annotations

12. when a test suite is executed in the order

13. Tell me anything about collections

14. interfaces

15. what is the difference between interface and a class

16. what are arrays and list difference between them

17. Is parameterisation possible and how(Tell the coding)

18. how do you check whether a test script is passed or not

19. if a test case fails how will you log the failure and the exception that caused. how will you report the result to your team lead, prj manager and the customer

20. what is the framework you are using for logging the bugs

21. How do you submit all the test scripts, execution results to you TL, PM

22. what is the process followed in you company

23. what is the difference between agile methodology and spiral modal

24. what is requirement traceability matrix

25. how do hover a link which is present on web page which opens a pop up containing a link.how do you click on the link that is in th pop up

26. prgm for reading a excel file

27. how do you initialise a chrome browser

28. SQl-joins,difference between inner joins and outer joins

29. i am having a table which consists of student details,id, marks and how do i fetch the second maximum value from the table

30. I am having two tables one having student id, student name,and the college id and the other table having college id,college name, location now i want to get map these two tables and get the students who are studying in a specific college

31. i want the count of all the students who belongs to same location

---interview questions in cognizant

Infosys Interview Questions:

1.Brief Description

2.How will you rate yourself in Selenium.

3.SIDE

4.How will you handle pop-up.

5.Which framework you are using in your project & why.

6.How will you handle java script pop-up.

7.How will you handle SSL issue

8.How will you take screenshot.

9.How will you handle AJAX?Explain it with code.

10.Explain your framework.

11.What is STLC,Test Plan & Defect Life Cycle(Procedure to file a defect)

12.traceability matrix

13.Selenium Grid concepts with code ?RC

14.Project Description

15.Diff between Implicitly Wait and Explicitly Wait

16. When will you stop testing

17.Thread 7 Synchronization in java

18.why you switched three companies in 3 years.

1. What difficulty you faced in Automation?

2. What you do with your code when a new version of browser is launched?

3. What are the features in your automation code?

4. How to integrate HPALM/HPQC with Selenium?

5. How you are sending the emails from framework, as .rar files are blocked in most of the companies?

6. How code review is done for your code?

Erricson:

How selenium will select/click elements on the webpage.

How you will idenity elements.

How your testscript will look for login page.

If you have 10 testscripts,and in each testscript there are 5 TestNGMethods how you will execute.

If you want to verify data you selected in one Testmethod ,is same displayed in the another testmethod/webpage (Ex:Shopping Cart)

What is Axes in the X path

How do you run tests using Testng (answer:xml)

How do you execute your fraamework from command prompt

java -cp bin;jars/\* org.testng.TestNG <suitename>.xml

Tavant:

1) Tell me about ur current project and ur role it?

2) Java Oops Concepts?

3) We have two dropdown boxes if we select 1st same will be displaed in 2nd how u test it?

4) We have a table with different colomns if u click on title it will be sorted how u test it is sorted or not?

5) u don't have d.b access if u give data then it will take how u test that data is stored in d.b or not?(Regestration page)

6) i have 8 marbles of same size and color and same weight excepet one..how u find the odd one.?

7) how do u find a perticular word in a statement "Hi how 'are' you"?

8) Testng

9) Jenkins

10)Grid

11)parallel execution in diff browers ?

12) write complete program for..while login it shows "sucess" is displayed or not?

13)frame work?

14)defect life cycle.

HCL Interview Questions

1.which frame work ur using and explain Framework

2.Questions on Nested frames Concept (Scenario given)

3.How ur using Agile Methodology in ur Project?

4.xpath Syntax

Happiest Minds

1.Explain ur FrameWork

2.How u will run tests parallely

3.pgm to search ipod in flipkart and sort the results in ascending order based on price

4.give examples for Checked exception and Runtime Exception.

5.Some time application takes 2 sec to load some time 30 sec some times more than 5 min how u will handle this.

6.wat is maven and wat is ant

Maven is dependance tool (used to download latest jar from internet before running) ANT is Build tool

7.In a String remove duplicate words and duplicate characters.

8.what is checked exception and gve example

Exception which are verified by the compiler before the compilation and it makes it mandatory to try-catch or throws.

are checked exception example InvalidFormatException, IOException, InterruptedException

9.Script to find ipad in flipkart and the results should store in ascending order

Tavant

1..write a code for pagination testing.(need to identify one records in a table)

2.how will u handle frames?

3.how will u handle calendar popup scenario?

4.Explain about TestNG.

5.Explain about POM.

6.what are the factors should consider before doing automation?

CaterPiller

1.Diff b/w final finally and finalize

2.how you will avoid object cloneable

3.wat is synchronize methods

4.wat finalize method will do

5.Quesion on Joints

6.Defect life Cycle

7.wat is Smoke Testing and Regression testing

8.Test case Design Techniques

9.how to run tests parallely in different browsers

10.Explain hashing technique

11.How u will return multiple values in a method

EF Systems

1.how to run tests parallely in different browsers

2.java program to reverse String

3.pgm to sort array in ascending order

4.diff b/w implicit wait and explicit wait

5.Test case Design Techniques

6.dif b/w delete drop and truncate

7.wat is inheritence polymorphism and encapsulation

8.wat is interface

Cognizant Interview Question

1.Wat is the diff b/w WebDriver Listerner and TestNG Listener

Both are interface but WebDriver listener are triggered when you call webdriver methods like findElement,

click etc example-afterClickOn; beforeFindBy.... TestNG Listener are triggered when testng methods are executed such as

onTestFailure onFinish..

2.diff b/w Assert and verify

3.count only the non duplicate words in the string

4.Frame Work and advantage of PageFactory classes

3D PLM:

1. difference between smoke testing and adhoc testing.

2. difference between integration testing and system testing with examples.

3. write functional test cases for " you have three field A, B, C and one ok button field can take only two character if by using the fields the triangle is formed then ok button must display valid triangle else invalid triangle.

4. difference between http and https?

5. some logical puzzles he asked like :-

a> how to measure 4 lt. if u have 2 container of 5 and 3 lt.

b> 3 bulb and 3 switch puzzle

c> car parking no. puzzle

6. what is the use of cookies and cache.

7. how to remove cookies

8. how to test web application

9. if you have opened any web application and it is broken means it has changed its layout and other thing which type of testing you will perform to check this

What is severity and priority in software testing?

What is Stub?

What is abstraction ?

What is Encapsulation in Java and OOPS with Example

What is Functional Testing? What are the Different Techniques used in it

Black Box Testing: Types and techniques of BBT

SQL Questions

What is the difference between inner and outer join? Explain with example.

What is the difference between JOIN and UNION?

What is the difference between UNION and UNION ALL?

What is the difference between WHERE clause and HAVING clause?

What is the difference among UNION, MINUS and INTERSECT?

What is Self Join and why is it required?

How can we transpose a table using SQL (changing rows to column or vice-versa) ?

How can we transpose a table using SQL (changing rows to column or vice-versa) ?

How to select first 5 records from a table?

What is the difference between ROWNUM pseudo column and ROW\_NUMBER() function?

What are the differences among ROWNUM, RANK and DENSE\_RANK?

ACI Worldwide Interview Questions

1st Round-Written Test

Java

1. What is Polymorphism?

2. What is Abstraction?

3. Difference between static and non-static members?

4. Difference between super and this?

5. What is a List and Set?

6. What is Encapsulation?

7. What is Access Specifies in java?

8. Diagram and Asked to write Program?

Selenium

1. Code to select all the check boxes?

2. Different Waits in Selenium?

3. How do you make sure that Checkbox/Radio button is selected or not? Button Enabled or not?

4. How do you handle drop down list?

5. Code to select all the options present in multi select list box?

6. How to perform drag and drop of element and Right clicking on element?

7. How do you handle Alert popup?

8. How do you handle element present in Frames? Code to transfer control from frame to main page

9. How do u setup profile in Firefox browser?

10. What are Annotations?

11. Write a code to take screen shot for only failed test scripts?

12. Write a code to print number of links present on a webpage?

13. Code for Login page and how do u verify whether it is successfully logged in or not using assert?

2nd Round – Technical

1. Introduce yourself?

2. STLC?

3. What is Interface and Abstract Class?

4. Can we create an object of Abstract class?

5. What are the types of Automation frameworks we have? Can u explain them?

6. What is a sub Query?

7. What are Joins?

8. Queries on Joins and Sub-Query?

9. What is TestNG? Why we use it in Selenium?

10. Explain Automation Framework?

11. Program on Prime Number?

12. SDLC?

13. Program to Read and Write data in to Excel Sheet?

14. How to Right Click in Selenium?

Manager Round

1. About Yourself?

2. Why Testing U r from Electronics Background right?

3. Qualities of Good Test Engineer?

4. Challenges in Testing?

5. Objectives of Developer and Test Engineer?

6. About Family?

7. Explain frame Work?

QSG interview questions

1.Tell me about yourself

2.What is difference between array and string

3.What are different types you have in Microsoft Office

4.How do you create table in MS Office

5.How do you add column to a table

6.what is framework

7.write a prgm for sorting a string

8.Why we go for inheritance

9.what are different types of annotations expl @Groups

10.tell abt your s/m configuration

I want to select two different values in two different dropdown list(without using xpath). which has same ID . pls help..

List<WebElement> allListBox = driver.findElements(By.id("jasa"));

for(int i=0;i<allListBox.size();i++)

{

WebElement listBox=allListBox.get(i);

Select select=new Select(listBox);

select.selectByIndex(i);

}

HappyestMind& Ness

Selenium

1.Write the syntax of drop down

2.What is Webdriver-Java interface

3.What is the current Version of Selinumwebdriver

4.How to get the text value from text box

5.StrinG x="ABC";

String x="ab"; does it create two objects?

6.write a program to compare the strings

7.Class a

{

}

class b extends a

{

}

A a= new A();

B b=new B();

A a= new B();

B a=new A();

Which is valid and invalid?

8.How to handle differnt type of pop up.(Wnidow,Alerts,Invisiblepopup)

9.How to handle DropDown menu

10. How to handle SSL certificate

11.How to handle Google search text.

12. How to handle dynamic text box which contains the 3 numbers, get

the number and add the three number and add it other text box.

13.How to handle Ajax Objects

8.Explain webdriver architecture

9.Explain File downloading

10.Explain File attachments other that Auto IT

11.Write the syntax for finding the row count in dynamic web table

12.Differnece between class and Interface

13. What type of class is the string class

14.WHAT are the differnt methods that are used along with Xpath

15.Explain Interface

16 Explain Abstract

17.What is selenum grid

18 what is selenium RC

19.Why is key word drivern frame work only choosen,

1. how to handle dynamic object

2. how to work with button which is in div tag and and u have to click

without using xpath

3. JVM is dependent or independent platform

4.how many Test script you write in day

5. describe your framework

6. how to parameterized your junit

7.how to handle ssl security

8. how to handle window pops

9. diffnct between implicit and explicit

10.what are the types of assertion and what are assertion in junit

11.How to handle ssl certificate

12.What is dom concept

13.What is the challenges u have faced during Automation

14What is genrics

15.What is synchronization

Java

1.JVM is dependent or independent platform

2.diffn bwhashmap and hash set, set and linkedlist, arraylist and

vector list , linkedhash set and hashset

3.abstract and interface

4.throw and throws

5.how to split

6.checked and unchecked exception

7.how to work with ajax aplication

8.why sring is immutable

9.wat is the retruntype of getwindowhandles();

10.what are the types of assertion and what are assertion in java

11.differnce between interface and Abstract classes

12.What is static varaible

13.what is volatile

14. what is trainsient

15.what is the differnece between Final,Finalize and finally

16.what is the differnce between Public,private and protected

Hi Guys,

Please find Selenium Webdriver add on for Element –locator-for-webdriver(Dynamic Xpath)

https://addons.mozilla.org/en-US/firefox/addon/element-locator-for-webdriv/

Click on Add to Firefox

Steps:

1) Right click on webelement and select Xpath

or

2) Right click on webelement and select Java locators

3) Click on Xpath and paste it into notepad

.

Its very useful to you to develop/create Xpaths and writing the Selenium code.

It saves lot of time

Prowareness Interview Questions

1. If there is a priority bug from production how do you address when the Sprint is in progress?

2. What is the level of involvement of Management in a Scrum team?

3. After a Sprint ends when the planning for next sprint begins?

4. Have you created VBA macros to update status of multiple test cases in QC?

5. I had DB2 exp in resume - so he asked me to write a join query invoving table A & B where only the values from table B be retrieved excluding those rows from B having matching rows in A.

6. What are the challenges you faced while creating framework?

7. Have you used Selenium Grid?

8. Have you run tests in parallel?

9. How will you wait until all the elements in a page gets loaded, the page is completely dynamic and you cannot guess which will be the last element to load.

10. When tests run in parallel how will Webdriver know that it has to work on a particular Browser window only?

11. When you move from one page to another how will you ensure that the proper page is loaded?

12. How will you drag and drop an element in a webpage?

13. If the element for which you are waiting for is not loaded, how will you handle the same?

14. How selenium interacts with Firefox, Chrome and IE (internal aspects)?

15. Have you used Javascript Executor in your scripting?

16. Why is main method Static?

17. Can the main method have return type other than void? (Yes it can, it can have return type int to provide info about successful execution, this info can be used in batch file/shell scripting - interviewers answer)

18. I was given a Unstable system of a Agile toolkit (its like our Jira) and was aked to list down the scenarios for testing Task Creation and editing the same. Also I was asked to find the bugs.

19. For the above scenario (point 18), I was asked to automate Task Creation and drag & drop of task from 'To Do' to 'In Progress'. This has to be done alongside with TestNG framework.

I was given 2hrs for performing point 18 & 19.

Genpact HeadStrong Questions

1. factorial,prime,armstorngnumber,swaping two numbers without temp var--Programs

2. interface,abstraction,encapsulation

3. diff between pagefactory n pageobject model

4. printstacktrace(exception related)

5. diff between string.equals and string1==string2

6. normalisation

7. searching with keyword and copy all the files name into one file

8. how grid works

9. how to debug or fix the issue

10. how to switch from one window to another window

11. mousemover concept

12. explain testNG framework

13. dataprovide,findby annotation

14. how to do exectuion of second method after first method method exectuion only without giving priority

15. what is diff between string,string buffer,string builder

16. diff between method overloading n method overriding

17. exception means? how do u recongnise where to fix in lengthy code if somewhere exception occurs while executing

18. diff between list-iterator and iterator

19. what is hashmap

20. how do u execute testcases using testng

21. how do u run batch execution, which one ur using for tht

22. how to print webtable in same structure on console

23. how do you switch multiple windows

24. how do you switch between tabs

25. How do you find webpage background color

1. How do you write xpath, if last three characters keeps on changing EX : "abc\_ \_ \_".

2. Pagefactory concepts.

3. Collections, list concepts.

4. Have you involved in Framework developement?

5. How do you fetch data from webtable in a webpage?

6. In a webtable, how do you fetch only last column data?

7. How do you handle dynamic element?

8. What is concrete method?

9. Actions, windowhandle and Select concepts.

10 Are you using any build tool?

11. Grid concepts.

12. How much do you rate yourself in Java out of 5?

13. Which API used to fetch data from excel sheet?

Telephonic Questions of Happiest Minds..

1. When do you abstract class and when do you use interfaces.

2. Have you written / are there any interface in your automation frame work.

3. How do you run Java Script directly in Web Driver.

4, If the customer does not want DOM model of automation, what is your suggestion.

5. tell me about your framework.

6. How flexible is your framework.

7. Few Questions on Serialization, Threads and OOPS concepts.

Mind tree

what framework have you worked and used in automation?

How many methods are there in in your framework libraries?

What all methods in libraries?

How many test scripts are there for your application?

How often do you run your automation test?

what is getAttribute and getText?

what is the time taken to run all your scripts?

what all settings do you do before running your automation test?

How do you pass values to method?

who writes the test cases?

write a script to print the multiples of 5?

How do change the run time property values of the element?

How do handle dynamic elements during run time?

what version of selenium do you use and which is the latest version?

Suppose a webtable is there with three columns such as combo box,name and id.I want to search a particular id and also check the checkbox for that particular id.How would you do that?

FICO company technical questions for Core Java +Selenium

.what is the default package in java ?

2.: why we use interface why not abstract class ...what if i implements same method in interface and abstract ....thn ?? any diffrnc??

3. what are inner classes ..name them ?

4.in public static void main(String arr[])... what if i replace public with private ........... remove static ........replace void with string

5.in hash map we have (key and value ) pair , can we store inside a value =(key, value ) again ??

5. what are variable scope in java (in class , in method , in static block)

6. what are the oops concept ? explain them each with real world examples

7.

8. what is singleton classes ?

9.what is difference between .equals() , (==) and compare-to();

10. what is the difference between hash code and equals

11.write a program to get substring of string ex: javais good ... so result : avais

12.write a program to reverse the string

13. wap for binary search

14.what is the use of package

15. why we use interface and abstract

16.we have 2 interface both have print method , in my class i have implemented the print method , how u wil get to know that i have implemented the first interface and how u will use it .. if u want to use it

17.what is the difference between vector list and arraylist

18. difference between hashmap and hash table, what is synchronization , how it is achieved

19. what is the use of collection, when we use it

20. what is priority queue in collection , what is the use , how u have use in your project

21.where to use hashmap and hashtable

22. where u have use the concept of interface and abstract in your framework

HCL Interview Questions.

1. Code for Login page / how do you find and store the Elements / Locators ?

2. How to use the same Test Script for Localization testing ( for a different language browser / different language settings).

3. Why do we upcast FirefoxDriver to Webdriver ?

4. How do you use @parameter Annotation in TestNg ?

5. How do you use load elements through properties file and run using TestNG ?