

Software Testing (Automation) with Selenium – Training Plan

Eligibility –

- Fresher with either of B. E. (all streams), B. Tech. (all streams), BCS, BCA, B. Sc., MCS, MCM, MCA
- Experienced professionals with less than 3 years of IT experience
- Candidates with other educational qualifications can also apply
- Basic Java [Loops, Arrays and Functions, OOPs concepts, Packages, Access Modifiers/Exception Handling is a must to know.

Selection Procedure –

- Fresher - Aptitude Test, Personal Interview
- Experienced – Personal Interview only

Course Duration –

- 2 hours daily in weekdays
- Total period of 1 months

Course Overview

Software Testing (Automation) – Course Overview			
Sr. No.	Topic	Details to be covered	Estimated Hours
1	Collections API and File Handling/TestNg Framework / ANT	<ul style="list-style-type: none"> ○ Introduction to Collections API ○ ArrayList Class ○ HashTable Class ○ Using ArrayList and HashTable of Collection API in Selenium framework ○ Reflection API usage and importance ○ Using Reflection API to make keyword driven Selenium framework ○ String class and functions ○ Reading/Writing Text Files ○ Reading Properties File in Java ○ Concept of jar file ○ POI API in java ○ Reading/Writing Microsoft XLS Files ○ Log4j API for Logging ○ Usage of Log4J in Selenium ○ What is TestNg ○ Installing TestNg in Eclipse ○ TestNg annotations ○ Understanding usage of annotations ○ Running a Test in TestNg ○ Batch Running of tests in TestNg ○ Skipping Tests ○ parameterizing Tests - DataProvider ○ Assertions/Reporting Errors 	5

		<ul style="list-style-type: none"> ○ TestNg Reports ○ Advantages over Junit ○ Using TestNg in Selenium ○ What is Ant ○ Downloading and configuring Ant ○ Build.xml configuration ○ XSLT report generation generation using TestNg and Ant ○ Building a BAT file to run tests using ANT 	
2	Selenium IDE Overview and Selenium WebDriver-1	<ul style="list-style-type: none"> ○ Why WebDriver? ○ Downloading WebDriver Jars and configuring in eclipse ○ Architecture of selenium webdriver ○ Drivers for Firefox, IE, chrome, Iphone, Android etc ○ First Selenium Code ○ Working with chrome and IE ○ Selenium RC and WebDriver ○ Concept of firefox profile ○ What is Firefox profile ○ Why we need firefox Profile ○ Close and Quit -Difference ○ Importing webdriver documentation in eclipse ○ WebDriver DesiredCapabilities Class ○ Proxy settings with webdriver/Working with proxy Servers ○ HTMLUnit driver and desired capabilities 	4
3	Selenium WebDriver Continued-2	<ul style="list-style-type: none"> ○ Installing Firebug and FirePath Addons in Firefox ○ Using Firebug and Firepath ○ HTML language tags ○ Handling Links with WebDriver ○ Extracting Xpaths and relevance of Xpaths ○ Identifying WebElements using id, name, linkname, class, xpath, tagname etc 	3
4	Selenium WebDriver Continued-3	<ul style="list-style-type: none"> ○ Handling Input Box/Buttons ○ Handling WebList ○ Handling Radio Buttons, CheckBoxes ○ Making your own xpaths without firebug –New ○ Dynamic objects ○ Extracting links and other webelements ○ Capturing screenshots with WebDriver ○ Window handles ○ Tabbed browsing with Selenium ○ Example of Tabbed browsing ○ Pop up handling in Selenium ○ Example of Pop up handling ○ Managing variable xpaths 	2

5	Selenium WebDriver Continued-4	<ul style="list-style-type: none"> ○ Certificate error handling using WebDriver ○ Pausing execution for sometime ○ Introducing wait for sometime ○ WebDriverWait Class ○ Handling JavaScript alert messages with Selenium ○ Simulating the Keyboard Keypress event ○ Simulating Pressing Enter Button of Keyboard 	2
6	Selenium Features	<ul style="list-style-type: none"> ○ Extracting Data From WebTable ○ Dynamic WebTable Handling ○ Attaching files with Selenium ○ Changing your facebook profile picture by attaching new picture ○ Mouse movement with Selenium- Mouse Interface ○ Working with Caleder using Selenium ○ Handling Ajax Autosuggests ○ Handling Google Ajax Autosuggests ○ Setting the page load timeout- WebDriver.Timeout Interface - - NEW ○ Handling Frames in Web Page ○ Handling cookies 	3
7	Selenium Features 2	<ul style="list-style-type: none"> ○ Simulaing front and back buton click on Browser using selenium ○ Assigning Firefox profile parameters ○ Downloading files using selenium ○ Selenium Javadocs ○ Listeners- Using WebDriverEventListener ○ Practical usage of Listeners in Selenium ○ Moving a mouse on a Object and right clicking on it ○ Finding Coordinates of a Web Object ○ Actions class in Webdriver ○ Handling CSS menu with Action class ○ Handling CSS menu with JavaScriptExecutor ○ JavaScriptExecutor example ○ Drag, drop, native events 	2
8	Selenium Features 3	<ul style="list-style-type: none"> ○ Dynamic Objects Exercises ○ Example 1 - Gmail.com: Print the gmail's increasing space ○ Example 2 - Check Links on Quikr.com ○ Example 3 - Scrolling the page side bar ○ Example 4 - Print names of all Facebook friends ○ Example 5 - Count/Verify items in shopping cart ○ Example 6 - demo.virtuemart.com Exercise 	3
9	TestNG and DataDriven Framework	<ul style="list-style-type: none"> ○ Overview of Data driven framework ○ Building the Test Base Class 	16

		<ul style="list-style-type: none"> ○ Using Annotations of TestNg ○ Reading XPATHS, Configuration from properties file ○ Initialize the Webdriver ○ Implementing WebDriver Implicit Wait ○ Implementing tests and batch running them ○ Repeating a test with different Data ○ Implement logging with Log4J API ○ Building utility functions ○ Parameterizing tests using XL Files ○ Controlling Execution order from XL Files ○ Assertions and Reporting Errors ○ Storing Screenshots of errors ○ Running the framework through ANT ○ Generating the XSLT reports ○ Creating a BAT file for project execution ○ Emailing Test Reports 	
		Total	40 hours

Placements –

- Assessment is conducted at the end of the training
- Job assistance is provided for candidates with A+ grades

Fees –

- Rs. 5000/- (inclusive of all taxes) payable at the start of training

Certification –

- Training Certificate is provided to all candidates with grades as scored in assessment.