Selenium Course Content

Introduction Java:

- Installing JAVA
- Installing Eclipse
- Features of Java
- Why Java for Selenium
- First Eclipse Project
- First Java program
- Concept of class file
- Datatypes in Java
- If statements

Loops, Arrays

- While Loop, For Loop
- Practical Examples with loops
- Using Loops in Selenium
- Single Dimensional Arrays
- Practical usage of arrays in Selenium
- What are Functions?
- Function Input Parameters
- Function Return Types

Packages,Access Modifiers

- Creating Packages
- Exception handling with try catch block
- Importance of exception handling
- Different Types of Exceptions
- Need of exception handling in Selenium framework

Collection API

- Introduction to Collections API

- ArrayList Class
- String, file handing, log4j
- String class and functions
- Reading Properties File in Java
- Log4j API for Logging
- Usage of Log4J in Selenium

SELENIUM

- Introduction
- Selenium Introduction
- Selenium vs other automation tools
- Advantages of selenium over other tools
- Technologies involved in selenium
- Selenium IDE

Web Driver

- Locators — ID, Name, Xpath, CSS
- Tools
- Installing Firefox
- Installing firebug and fire path and fire finder add-ons in Firefox
- How to locate HTML elements using Xpath and Css

TESTNG / ANT

- What is TestNg
- Installing TestNg in Eclipse
- TestNg annotations
- Understanding usage of annotations
- Running a Test in TestNg
- Assertions/Reporting Errors
- TestNg Reports
- Logging with Log4j
- Using TestNg in Selenium

Why WebDriver?

- Downloading and configuring webdriver in eclipse
- WebDriver Interface
- First Selenium WebDriver Code
- Close method in Selenium

SELENIUM WEBDRIVER

- Handling Links with WebDriver
- Identifying WebElements using id, name, linkname, class, xpath, tagname etc
- Handling Input Box/Buttons
- Handling WebList
- Handling Radio Buttons, CheckBoxes
- Capturing screenshots with WebDriver
- Introducing wait
- WebDriverWait Class
- Handling JavaScript alert messages with Selenium
- Dynamic WebTable Handling
- Extracting Data From WebTable
- Working with Calendar using Selenium
- Handling Ajax Autosuggest
- Live Project
- Resume Preparation