Chicago Institute of Technology

SELENIUM TESTING

Introduction:
- What is automation testing?
- What is the use of automation testing?
- What we need to Automate?
- What is Selenium?
- Advantages of Selenium
- What is the difference between Selenium and QTP?

Different Flavours in Selenium:
- IDE
- Selenium-RC
- Selenium-Grid
- Selenium Web Driver/Selenium 2.0

Selenium IDE:
- Installing Selenium IDE
- Selenium IDE icons
- Recording your first test with Selenium IDE
- IDE Context Menu
- Assert
- Verify
- Adding Selenium IDE comments
- Synchronization commands
- Working on pages with AJAX
- Storing elements
- Creating test suites
- What you cannot record

Locators & Object Identification:
- Tools to identify elements/objects
- Firebug
- IE Developer tools
- Google Chrome Developer tools
- Locating elements by ID
- Finding elements by name
- Finding elements by link text
- Finding elements by XPath
- Finding Elements by using CSS
- Summary
- Some Special IDE commands
- Write your own Selenium IDE script without record and playback

JUnit Framework:
- Running Java Programs using Junit
- Writing Selenium tests from scratch using JUnit Framework
- JUNIT Annotations
- JUNIT Methods

- Frequently used Selenium commands
- Test Suites using JUNIT
- Parameterized test cases using JUnit framework

TestNG Framework:
- How to Install TestNG plugin in Eclipse
- TestNG sample script
- Writing Selenium testing script from scratch
- Creating Test suites using TestNG
- Reports generation using TestNG
- Parameterized test cases using TestNG framework

Selenium WEB-DRIVER:
- Why WebDriver?
- Downloading web driver Jars configuring in eclipse
- Architecture of selenium webdriver
- Drivers for Firefox, IE, Chrome, iPhone, Android etc.
- Difference between Selenium RC and WD

Working with Multiple Browsers:
- Executing Automation Test Cases in multiple browsers sequentially
- Executing Automation Test Cases in multiple browsers Parallel

Build Configuration Tool – Apache Maven:
- Downloading and configuring Maven
- Create Maven project
- Maven commands and operations
- Adding Maven dependencies to the project
- Execute Test Suites using Maven

Version Controlling Tool GITHUB:
- Downloading and configuring Github
- Create repository and cloning projects
- Git commands and operations

Automation Test Framework:
- What is a framework
- Types of framework
- Data driven framework
- Modular driven framework
- Keyword driven framework
- User Defined Keyword driven framework with implementation
- Execute test scripts from the framework