



SELENIUM Test Automation with JAVA - Syllabus

1. Selenium Components/ Objects

- Automation Testing Process
- Automation fundamentals
 - Automated Testing & Benefits
 - Open Source / Commercial Tools
 - Introduction to Selenium
- Selenium Components
 - Selenium IDE and Selenium RC
 - WebDriver
 - Selenium GRID
- Object Identification
 - Firebug / Firepath
 - Locators for all browsers

2. Core Java

- Language Fundamentals
 - Class, Method & Object
 - DataTypes and variables
 - Loops & Conditions
 - Arrays & Keywords
 - Wrapper Classes
 - Strings
 - Exception Handling
 - Keyboard Actions
 - Collections & Hash Map
 - Array List, List
- OOPS concepts
 - Inheritance, Polymorphism
 - Abstraction, Encapsulation
 - Interface

- About Eclipse

- Creating Projects
- Eclipse with Selenium

3. WebDriver with Project

- Introduction WebDriver
- Creating generic scripts
- Mouseover actions
- Frames & Scroll bar
- Pop-up's / alert
- Keyboard & Ajax Events
- Dropdown & page back
- Implicit and Explicit Wait
- File Upload & Download
- Web Tables & Excel
- Working with DB
- Auto Complete feature
- Screenshot/ Windows Handeler

4. Framework Implementation

- TestNG, Hybrid & POM
- TestNG/Junit
 - Writing TestNG scripts
 - Working with Test suites
- Selenium Grid
 - Hub & Nodes
 - Desired Capabilities
 - Remote WebDriver
 - Sikuli, Robot class
 - Log4j, JavaScript Executer
 - Cucumber, Maven