Selenium

1. Automation Testing

- What is Automation Testing?
- When we Switch to Automation Testing?
- Why Automation testing?/Advantages
- Disadvantages
- Automation Testing Tools

2.Selenium

- What is Selenium
- Why Selenium? / Advantages
- What are its versions?
- What all OS, Browsers, and Programming Languages it Support?
  - Java-Selenium Architecture
  - WebDriver Architecture
  - Basic Selenium Program to Open and close Browser
  - WebDriver abstract methods
  - Locators
  - Xpath, its Types and cases
- Handling Multiple Elements
- Handling Synchronisation issue by using implicitlyWait and Explicitly Wait
- Handling Dropdown (static and dynamic)
- Handling Keyboard and Mouse Actions
- Taking Screenshot
- Handling Disabled Element
- Performing Scroll down Action
- WebElement Interface Methods
- Handling Popups (web-based and Window-based)
- Handling Frames
- Handling New Windows/New Tabs
- Handling WebTable
- Handling Radio and CheckBox
- Handling Text And Attribute Value
- Fetching Links count and Broken Links
- Fetching Image count and Broken images

AUTOMATION FRAMEWORK

1.Hybrid Framework

o   Introduction to Maven
o   Base Class

2.Data-Driven Framework

o   Excel Read
o   Excel Write
o   Excel Update
o   Selenium Integration with excel

3. Method-Driven

o   POM (Page Object Model)

4. Junit

o   Annotations
o   Assertion in junit
o   Suite level Execution
o   Fetching reports in Junit

5. TestNG

o   Fetching TestNG Report
o   Batch Execution
o   TestNG Flags and Annotations
o   Assertion
o   Grouping Execution
o   Data Parameterisation
o   Data driven through DataProvider
o   Parallel Execution
o   Distributed Parallel Execution
o   Cross Browser Parallel Execution

6.Cucumber

o   Introduction to BDD Framework
o   Files Need to execute Cucumber file
o   Feature File and Gherkin Keyword
o   Assertion
o   Cucumber Options
o   Scenario Outline
o   Data Table
o   Hooks and Ordered Hooks
o   Background
o   Reports in Cucumber

AUTOMATION TOOLS

1.GIT Hub

- o Introduction to Git Hub
- o Installation of github
- o Global Account Creation in Git Hub
- o Clone Project in Git hub
- o Push Code from local
- o Pull code from git
- o Create and switch Branch
- o Conflict Resolve

2.Api Testing

- o Introduction to Api
- o Installation of PostMan
- o Introduction to http method
- o Https Status Code
- o Request in postman
- o Api Chaining
- o Types of variable in postman