

## **LIST OF SELENIUM TOPICS**

### **HTML**

#### **Selenium WebDriver**

Locators

Different ways of Finding Elements

Different Types of Waits

Selecting values from dropdown

Mouse, Keyboard Actions.

Switches

Dynamic Elements

Automating face book registration page.

Auto IT

Headless browser

Multiple Browser

Parallel Testing

#### **Frameworks**

#### **Selenium GRID**

#### **Apache Poi**

#### **TestNG**

#### **Maven**

#### **Git**

#### **Jenkins**

## Detailed HTML Syllabus

### HTML

Understanding different types of tags  
Developing sample web page  
Analyzing the tag names, attributes/properties, values

### SELENIUM WEB DRIVER

#### Locators

Id  
name  
className  
tagName  
linkText  
partialLinkText  
xpath  
    different ways of writing xpath  
    validating the xpath  
cssselector  
    different ways of writing cssselector  
    validating the cssselector

#### Different ways of Finding Elements

findElement  
findElements  
WebElement  
List<WebElement>  
Different ways of finding elements  
Selecting values from dropdown

#### Different Types of Waits

implicitlyWait  
Explicit Waits  
Compulsory Waits

#### Mouse, Keyboard Actions.

Rightclick  
Click  
Drag and drop  
Press multiple keys from keyboard

#### Switches

Switch to frame  
Switch to window/Switch across windows  
Switch to alert  
Switch to default content

## **Advanced Concepts**

- Finding the dynamic Elements
- Automating face book registration page.
- Headless browser
- Multiple browser & cross browser testing
- Parallel Test Execution
- Auto IT
- Uploading Files or Downloading file.

## **Handling Dynamic Objects**

- Finding Multiple Objects
- Traversing through Web Tables
- Traversing through Web List
- Constructing xpath at RunTime

## **Frameworks**

- Page Object Model Framework
- Hybrid Frame work
- Data driven Testing

## **Selenium GRID**

- Configuring Selenium Grid.
- Remote Test Execution.
- Multiple Browser Execution

## **Apache Poi**

- Excel Reading
- Writing results to excel sheet.

## **TestNG**

- Different Annotations
- Data Provider
- Listeners
- Asserts – to validate Test Results

## **Maven**

- Integrating test framework with Maven
- Build
- Dependency Management

## **Git**

- Git Repository (Code Management).

## **Jenkins**

- CI & CD Basics