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Selenium Syllabus

Overview of automation testing

- Why Automaton
- Automation Testing process
- Benefits of Automation Testing
- Limitations of Automated Testing
- Comparison of open source and commercial automation tools
- Criteria for selecting an Automation Tool
- Automation feasibility
- Overview of Automation Frameworks

Introduction of selenium components

- What is Selenium and Why to use it
- Selenium Components
 - Selenium IDE
 - Selenium RC
 - Selenium Web Driver
 - Selenium Grid

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Basics of java with oops concepts [10 hours]

- Java Overview
- Installing Java – Download JDK and Setup eclipse
- Java Features
- Java virtual machine (JVM)
- Difference between JDK,JRE and JVM
- Java Source File Structure
- Basic Java program
- Compilation ,Execution and Debugging in java
- Primitive Data types
- Wrapper classes
- Variables and their scope
- Java Access Modifiers
- Java basic operators
- Java Loop Control structures
- Java Decision making
- Java character, strings and arrays
- Java inbuilt methods
- Java regular expressions
- File handling

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- Java Exceptions
- Collections
- Object Oriented Programming Concepts - Class, Object, variables, methods, Packages, access modifiers, Interfaces, Inheritance etc.

Selenium IDE

- Installing Selenium IDE
- Selenium IDE Features
- Recording business flows and playback
- Debugging
- Web element locators
- Selenium commands – Actions, Asserts & Assesors
- Assertions vs verifications
- Synchronization
- Creating automation scripts
- Creating automation test suit
- Test suite Execution
- Export selenium test scripts into different languages
- Limitations of IDE

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Selenium Remote Control (RC)

- Selenium RC Environment setup
- Introduction to RC
- Selenium RC features
- Architecture of selenium RC
- Selenium Server
- Selenium Client
- Commands in selenium RC
- Generic test script development
- Test scripts enhancements and validations
- Debugging
- Test Script execution
- Test Result Analysis
- Selenium RC vs IDE
- Limitations of selenium RC

Selenium Web Driver

- Introduction to Selenium Web Driver
- WebDriver Architecture
- Download and Configure WebDriver with Eclipse
- Selenium Web Driver Features

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- Comparing WebDriver to RC

Object Identification methods

- Web Element locator tools
- Finding elements by Locators
- Xpath
- CSS
- Id
- Name
- Class Name
- Tag Name
- Link Text
- Partial Link text
- Finding elements by DOM
- Finding elements by java script
- Finding elements by find elements() method
- Handling Mouse movements and keyboard Events

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Regular expressions

User operations on web element

- Enter and retrieve data in textbox
- Combo box value selection
- Click operations on web elements
- Selecting /de-selecting Check box
- Selecting radio buttons

Reading data from Web element

- Enter and retrieve data in textbox
- Combo box value selection
- Click operations on web elements
- Selecting /de-selecting Check box
- Selecting radio buttons

Handling web tables

- Retrieving data from web table
- Validations on web table
- Operations on web table
- Exporting web table data into excel

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Synchronization points

- Page load synchronization
- Element synchronization
- Script synchronization
- Synchronization based on conditions

Handling frames

- Handling element in frame
- Switching between frames

Handling Alerts/unexpected windows

- Dismiss method
- Accept method

Testing Framework

- Introduction of Testing framework
- Different types of automation frameworks
- Data driven framework
- Modular framework
- Keyword framework

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Test Execution frameworks and reporting

- TestNG
- Junit
- Annotations in TestNG and Junit
- Automation test suite execution in TestNG

Develop automation Framework

- Design automation framework with
- Use external Data for Testing (Excel sheet , xml files, Property file)
- Reading and understanding reports