

## Selenium Course Content

### Introduction

- What is Automation Testing
- When to go for Automation
- Different Automation Tools (Vendor & open source)
- Advantages of Automation
- Criteria for Automation
- Difference between Manual Testing & Automation Testing Process

### Introduction to Selenium

- What is Selenium tool
- Use of Selenium tool in Automation
- Features of Selenium
- Differences between Selenium and Other tools

### Selenium Components

#### Configuration of Selenium IDE & Dev Scripts

- Recording the scripts in IDE
- Running the scripts
- Saving the scripts and using again
- Understanding the Objects Identification (Id, Name)
- Difference between Test case & Test Suit
- Languages Supported while recording
- Synchronization in Selenium IDE( wait commands)
- Learning Commands in IDE
- How to put validations (assert,verify)
- How to read text/values from webpage
- Running java script from IDE (User Extensions)
- Limitations of IDE

### Java Installation and Configuration

#### Configuring Eclipse IDE for Java & Selenium

#### Learning Java

- Introduction to Java programming
- Data Types in Java
- Primitive Data types
- Declaring Variables
- Writing java program and running

#### Conditional Statements

#### Loop Statements

#### Arrays

#### Exception, errorhandling

#### Object Oriented Programming

#### Class

#### Polymorphism

#### Inheritance

#### Interfaces

#### Encapsulation and Abstraction

#### Packages

#### Web Driver

- Introduction to Web Driver
- Configure Eclipse (Adding Selenium Libraries)
- Using FirefoxDriver API
- Working with Elements and Programming
- Writing java program and running

# ADVANTO

S O F T W A R E

- Edit Boxes, Buttons, Checkbox, Radiobuttons, Links
- Selecting values from a Dropdown list
- Understanding xpath to locate elements in webpage
- Working with Table Elements
- Handling keyboard, mouse events

## Handling Windows

- How to handle multiple browser
- Handling alerts
- Handling windows alerts using (Auto it / sikuli)
- Handling Frames

## Data Driven Testing

- What is Data Driven Testing
- How to parameterize the data to the script using Excel and Properties files
- Reading, writing data into Excel

## Configuring other Browsers

- Configure IE browser
- Configure Chrome browser
- Running scripts on different browsers

## TestNG Framework

- What is TestNG
- Create TestNG.xml file
- Integrate the Selenium Scripts and Run from TestNG
- TestNG Annotations
- Reporting Results & Analyze
- Passing parameters from xml to Java file

- Executing same test case with multiple sets of data
- Groups
- Reporting Results

## Selenium Grid

- Introduction
- RemoteWebDriver
- Configuring hub
- Configuring node
- Running scripts on remote computer

## Selenium Integration with build tool. (ANT/MAVEN)

## Generating XSLT Reports

## Integration with Continuous Integration tool (Jenkins)

## Automation Life Cycle

- What is a Framework
- Types of Frameworks
- Modular framework
- Data Driven framework
- Keyword driven framework
- Hybrid framework
- POM
- Developing the framework and executing the scripts from framework.

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