



## 9. Software Testing

### 9.3 Selenium

**Duration:** 30 Lectures

#### **Course Content:**

##### **1. Introduction**

- 1.1. Overview
- 1.2. Advantages of Selenium
- 1.3. Disadvantages of Selenium

##### **2. SELENIUM – IDE**

- 2.1. Selenium – IDE
- 2.2. Download Selenium IDE
- 2.3. Features of Selenium IDE
- 2.4. Creating Selenium IDE Tests
- 2.5. Script Debugging
- 2.6. Inserting Verification Points
- 2.7. Pattern Matching
- 2.8. Selenium User Extensions
- 2.9. Different Browser Execution

##### **3. ENVIRONMENT SETUP**

- 3.1. Download and Install Java
- 3.2. Download and Configure Eclipse
- 3.3. Configure FireBug and FirePath
- 3.4. Configure Selenium RC
- 3.5. Selenium
- 3.6. Configure Selenium WebDriver



## 4. SELENIUM RC

- 4.1. What is Selenium RC?
- 4.2. Selenium RC Architecture
- 4.3. RC – Scripting

## 5. SELENESE COMMANDS

- 5.1. Actions
- 5.2. Accessors
- 5.3. Assertions

## 6. WEBDRIVER

- 6.1. Architecture
- 6.2. Selenium RC Vs WebDriver
- 6.3. Scripting using WebDriver
- 6.4. Most Used Commands

## 7. LOCATORS

- 7.1. Locators Usage

## 8. INTERACTIONS

- 8.1. User Interactions
- 8.2. Text Box Interaction
- 8.3. Radio Button Interaction
- 8.4. Check Box Interaction
- 8.5. Dropdown Interaction
- 8.6. Synchronization
- 8.7. Drag & Drop
- 8.8. Keyboard Actions
- 8.9. Mouse Actions
- 8.10. Multi Select Action
- 8.11. Find All Links

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## 9. TEST DESIGN TECHNIQUES

- 9.1. Page Object Model
- 9.2. POM Flow Diagram
- 9.3. Data Driven using Excel
- 9.4. Parameterization
- 9.5. Log4j Logging
- 9.6. Exception Handling
- 9.7. Multi Browser Testing
- 9.8. Capture Screenshots
- 9.9. Capturing Videos

## 10. TESTING

- 10.1. What is Testing?
- 10.2. Installing Testing for Eclipse
- 10.3. Annotations in Testing
- 10.4. Testing -Eclipse Setup
- 10.5. First Test in Testing

## 11. SELENIUM GRID

- 11.1. Architecture
- 11.2. Working with Grid
- 11.3. Configuring the Hub
- 11.4. Configuring the Nodes
- 11.5. Develop the Script and Prepare the XML File
- 11.6. Test Execution
- 11.7. Result Analysis

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