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## Selenium @ EVS

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## **Selenium IDE**

- **❖** Installing Selenium IDE
- ❖ Recording Script
- Running, Pausing and debugging Script
- Running a script line by line
- Inserting commands in between script
- XPATHS and installing firebug to get XPATHS
- Wait Commands
- Verification and Assertions
- Should I use verify or assertion
- JavaScript
- User-extension.js in Selenium IDE
- Using if statements and loops in IDE.
- Echo, StoreEval and StoredVars Demystified
- Creating your own user extensions.
- Making a function in user extension to generate random email address.
- Extracting all values of dropdown.
- Reading XML from JavaScript using DOM.
- Building SalesForce.com Test Cases
- ❖ Parameterize your IDE test cases with customized use extension and XML.
- Regular Expressions in Selenium IDE.
- Handling JavaScript Alerts
- Capturing screenshots from Selenium IDE

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## **Java Introduction**

- Selenium Overview
- Installing Java
- Installing Eclipse
- Features of Java
- Why Java for Selenium
- First Eclipse Project
- First Java program
- Concept of class file
- Platform independence
- Data types in Java
- String class
- If statements

## **Loops, Arrays and Functions**

- Conditional and concatenation operators
- ❖ While Loop
- For Loops
- Practical Examples with loops
- Usage of loops in Selenium
- Single Dimensional Arrays
- Two Dimensional arrays
- ❖ Practical usage of arrays in Selenium
- Drawbacks of arrays
- ❖ What are Functions?
- Function Input Parameters
- Function Return Types

# **Object Oriented Programming- 1**

- Local Variables
- Global Variables
- Static and Non-Static Variables
- Static and Non-Static Functions
- Creating Objects in Java
- Meaning of static
- ❖ Why is main method static?

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- Object and Object References
- Call by reference and Value
- Constructors
- Usage of Objects in Selenium

## **Object Oriented Programming -2**

- Concept of Inheritance
- Interface
- Overloadings and Overriding Funtions
- Example on inheritance
- Object Class
- Usage of Inheritance in Selenium

## Packages, Access Modifiers/ Exception Handling

- Relevence of Packages
- Creating Packages
- Accessing Classes Across Packages
- Good Features of eclipse
- \* Accessing modifiers Public, Private, Default, Protected
- Exception hading with try catch block
- Importance of exception handling
- Exception and Error
- Throwable Class
- Final and Finally
- Throw and Throws
- Different Types of Exceptions
- ❖ Need of exception handling in Selenium framework

# String, File Handling, Log4j, /Handling XLS files

- String class and functions
- Reading/Writing Text Files
- Reading Properties File in Java
- Concept of jar file
- ❖ POI API in java
- Reading/Writing Microsoft XLS Files
- ❖ Log4j API for Logging
- Usage of Log4J in Selenium

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# **Selenium WebDriver Section**

- Why WebDriver?
- Selenium RC and Webdriver
- Downloading and configuring webdriver in eclipse
- WebDriver Interface
- Drivers for Firefox, IE, chrome, Iphone, Android etc
- First Selenium WebDriver Code Expertview Solutions
- Opening multiple browsers at one time
- Close and Quit methods in Webdriver
- What is Firefox profile
- Creating own Firefox profile
- Magic of HtmlUnitDriver

## Selenium WebDriver – 2

- Installing Firebug and FirePath Add-ons in Firefox
- Using Firebug and Firepath
- HTML language tags
- Handling Links with WebDriver
- Extracting Xpaths and relevance of Xpaths
- Identifying WebElements using id, name, linkname, class, xpath, tagname etc
- Handling Input Box/Buttons
- Handling WebList
- Handling Radio Buttons, CheckBoxes

## Selenium Webdriver – 3

- Dynamic objects
- Extracting links and other webelements
- Capturing screenshots with WebDriver
- ❖ Window handles
- Tabbed browsing with Selenium
- Example of Tabbed browsing
- Pop up handling in Selenium
- Example of Pop up handling
- Managing variable xpaths
- Certificate error handling using WebDriver

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## Selenium WebDriver – 4

- Pausing execution for sometime Expertview Solutions
- Introducing wait for sometime
- WebDriverWait Class
- Handling JavaScript alert messages with Selenium
- Simulating the Keyboard Keypress event
- Simulating Pressing Enter Button of Keyboard

#### <u>Selenium 2.0 Features – 3</u>

- Extracting Data From WebTable
- Dynamic WebTable Handling
- Attaching files with Selenium
- Changing your facebook profile picture by attaching new picture
- Mouse movement with Selenium- Mouse Interface
- Working with Caleder using Selenium
- Handling Ajax Autosuggests
- Handling Google Ajax Autosuggests
- Setting the page load timeout- WebDriver. Timeout Interface

## **Working with ChromeDriver**

- Help- My Chrome is not opening
- Help- My Chrome is opening but its not navigating
- Configuring chromderiver.exe
- Uploading files in Chrome
- Tabbed browsing and Popup handling in Chrome
- Certificate handling in Chrome
- Moving mouse in Chrome

## <u>Selenium 2.0 Features – 5</u>

- Simulaing front and back buton click on Browser using selenium
- Assigning Firefox profile parameters Expertview Solutions
- Downloading files using selenium
- Selenium Javadocs
- Listeners- Using WebDriverEventListener
- Practical usage of Listeners in Selenium
- Moving a mouse on a Object and right clicking on it
- Finding Coordinates of a Web Object
- Actions class in Webdriver

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## Selenium 2.0 – Exercises

- Dynamic Objects Exercises
- **\*** Example 1 Gmail.com: Print the gmail's increasing space
- Example 2 Check Links on Quikr.com
- Example 3 Scrolling the page side bar
- Example 4 Print names of all facebook friends
- Example 5 Count/Verify items in shopping cart

## **Automation Framework Section**

## **Junit and Data Driven Framework**

- Overview of Data driven framework
- Building the Test Base Class
- Using Annotations of Junit
- Reading XPATHS, Configuration from properties file
- Initialize the Webdriver
- Building the Test Base Class
- Implementing WebDriver Implicit Wait
- Implementing tests and batch running them
- Repeating a test with different Data
- Building utility functions
- Parameterizing tests using XL Files
- Controlling Execution order from XL Files
- Assertions and Reporting Errors / ErrorCollector
- Storing Screenshots of errors
- Running the framework through ANT
- Generating the HTML reports
- Emailing test reports
- Creating a BAT file for project execution

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# Junit and Hybrid (Keyword+Data) Driven Framework Expertview Solutions

- Overview of Hybrid(Keyword+Data Driven) Framework
- Building XLS File Having Test Cases and Keywords
- Building XLS File Having Test Data
- Building Base class
- Reading XPATHS, Configuration from properties file
- Implementing ImplicitWait
- Implementing the keywords using the reflection API
- Implementing tests
- Assertions and Reporting Errors
- Parameterizing tests using DataProvider and XL Files
- Repeating a test with different Data
- Running the framework through ANT
- Generating the reports
- Emailing test reports
- Creating a BAT file for project execution

# TestNg and Hybrid (Keyword+Data) Framework

- Overview of Hybrid Framework
- Building XLS File Having Test Cases and Keywords
- Building XLS File Having Test Data
- Building Base class
- \* Reading XPATHS, Configuration from properties file
- Implementing WebdriverWait
- Implementing the keywords using the reflection API
- Implementing tests
- Assertions and Reporting Errors
- Parameterizing tests using DataProvider and XL Files
- Repeating a test with different Data
- Running the framework through ANT
- Generating the reports
- Emailing test reports
- Creating a BAT file for project execution
- Database Testing

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## **Java DataBase Connetivity JDBC**

- Installing MySQL Database and making some tables in it
- java.sql package
- JDBC Drivers
- Connection Interface
- Statement and PreparedStatement Interfaces
- ResultSet Interface
- Firing select, insert, update and delete queries with database using Java JDBC
- Looping the ResultSet
- Using Annotations of Junit/TestNg to establish connection with database when
- Using Selenium
- DataBase Testing of Sample Web CRM Application
- Installing tomcat
- Creating Database of CRM application
- Downloading and Deploying the CRM web application on Tomcat with ant
- Running the webapp on Tomcat
- Using Prepared statement to fire conditional select query
- Validating login of customer with the database
- Validating values present in a droplist with ones present in DB
- Validating whether values filled by user are getting stored in the database or not
- Using assertions for validations

## **Selenium RC Section**

#### Introduction to selenium RC

- What is Selenium RC?
- Difference between Selenium IDE and Selenium RC
- Difference between Webdriver(2.x) and Selenium RC(1.x)
- Configuring Selenium RC in Eclipse
- Javadocs for Selenium RC
- Selenium Interface
- Starting and Stopping Selenium Server Expertivew Solutions
- Running Sample Selenium code using SeleneseTestCase class
- Running Sample Selenium code using DefaultSelenium class
- Browsers supported by RC
- FireBug and Firepath
- **\*** XPATHS and their usage with Selenium RC
- Full and partial Xpaths

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## **Selenium RC Features**

- Handling HTML components like Links, Buttons, Input box, Radio buttons, Checkbox
- Handling a dropdown list
- Reading title of page using Selenium RC
- Closing brosers and killing sessions
- Slowing down the script execution speed
- Capturing Screenshots with Selenium RC
- Extracting Data from Webtable cells
- Checking if an element/object is present on the page or not
- Checking if text is present in the application
- Handling javascript alert message boxes
- Full and partial Xpaths
- **❖** Handling Buttons, Edit boxes, Radio buttons, Checkboxes and other Page objects