

Selenium Training Syllabus

Introduction to Selenium

1. What is Selenium
2. Use of Selenium
3. Features of selenium
4. Difference between Selenium and QTP

Selenium Components

1. Selenium IDE
2. Selenium Core
3. Selenium RC
4. Selenium Grid
5. Selenium 2.0

Selenium IDE

1. Selenium Overview
2. Selenium IDE Introduction
3. Downloading and Installing Selenium IDE
4. Recording and Running a Simple Test
5. Selenium IDE Features
6. Installing Useful Tools for Writing Tests
7. Selenium Concepts
8. Selenium Commands
9. Verifying Page Elements Assertions and Verifications
10. Wait Commands
11. Object Identification
12. Element Locators
13. Regular Expression patterns
14. Selenium Test Runner
15. Using Regular Expressions in Selenium IDE
16. Creating Selenium Test Suites
17. How to run the recorded script against other browsers
18. Why companies are not using recording tools
19. Limitations of Selenium IDE

Selenium Core

1. Selenium Core Overview
2. Installing Selenium Core
3. Running Selenium Core Test Suites

JavaScript

1. Introduction

2. Statements
3. Comments
4. Variables
5. Operators
6. Comparisons
7. If...Else
8. Switch
9. Functions
10. For Loop
11. While Loop
12. Break Loops
13. For...In
14. Events
15. Try...Catch

Core Java Fundamentals

1. History of Java
2. Features of java
3. Java Programming Language Keywords
4. Class and Object
5. Data Types
6. Array Declaration, Construction and Initialization
7. Encapsulation
8. Inheritance
9. Polymorphism

Flow Control, Exceptions, and Assertions

1. Writing Code Using if and switch
2. Statements
3. Writing Code Using Loops
4. Handling Exceptions
5. Working with the Assertion Mechanism

Using the java.lang.String Class

1. Using the java.lang.Math Class
2. Using Wrapper Classes
3. Using the equals() Method with
4. Strings and Wrappers and Objects

Inner Classes

1. Method-Local Inner Classes
2. Anonymous Inner Classes
3. Static Nested Classes

Defining, Instantiating, and Starting Threads

1. Preventing Thread Execution
2. Synchronizing Code
3. Thread Interaction

Object Orientation, Overloading and Overriding, Constructors

1. Benefits of Encapsulation
2. Overridden and Overloaded Methods

About Eclipse

1. Installing Eclipse
2. Creating Simple Project in eclipse
3. Importing and Exporting
4. Debugging using Eclipse
5. Exploring Eclipse Basic
6. Exploring Eclipse Advanced

Fire Bug, Xpath and CSS

1. Introduction to Firebug
2. Downloading and installing of Firebug
3. Downloading and installing of xpath
4. How to identify the xpath for an particular element
5. Identifying objects using CSS

Selenium RC

1. Installing Selenium RC
2. Selenium RC Overview
3. Starting and Stopping Selenium Server
4. Creating the generic scripts in selenium

Hibernate Query Language

1. Select clause
2. From clause
3. Where clause
4. Aggregate functions
5. Expressions
6. Sorting
7. Grouping
8. Sub queries

Criteria Queries

1. Creating Criteria
2. Narrowing the Result

3. Ordering the Result

Native SQL

1. Using SQL Query
2. Named SQL Query
3. Using Stored Procedure for Querying
4. Creating Custom SQL for CRUD

Transaction and Concurrency

1. Session and Transaction Scopes
2. Database Transaction Demarcation
3. Optimistic Concurrency Control
4. Pessimistic Concurrency Control
5. Connection Release Modes