Besant Technologies

Selenium with C# Course Syllabus

C# Introduction

- Installing Visual Studio
- Features Of C#
- Why C# For Selenium
- First C# Project
- First C# Program
- Concept Of Assembly File
- Datatypes In C#
- 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

- Local Variables
- Global Variables
- Static And Non-Static Variables
- Static And Non-Static Functions

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- ➢ Creating Objects In C#

- ➢ Meaning Of Static

- ➢ Why Is Main Method Static?

- ➢ Object And Object References

- ➢ Call By Reference And Value

- ➢ Constructors

- ➢ Concept Of Inheritance

- ➢ Interface

- ➢ Overloading And Overriding Functions

- ➢ Example On Inheritance

- ➢ Object Class

- ➢ Usage Of Inheritance In Selenium

Collection API/Reflection API

- ➢ Read Only Collection Class

- ➢ List And Dictionary Class

- ➢ Using List And Dictionary Of Collection API In Selenium Framework

- ➢ Reflection API Usage And Importance

- ➢ Using Reflection API To Make Keyword Driven Selenium Framework

String Class and Functions

- ➢ Reading/Writing Text Files

- ➢ Reading Configuration File In C#

- ➢ Concept Of Assembly File

- ➢ Reading/Writing Microsoft XLS Files

- ➢ Reading Data From XML Files Using C#

NUNIT and Reporting

- ➢ Extent Reports

- ➢ Assertions

- ➢ Parameterizing Tests

- ➢ Skipping Tests

- ➢ Parallel Execution

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- ➢ Running A Test In Nunit

- ➢ Nunit Annotations

- ➢ Installing Nunit

- ➢ Why Nunit

Selenium Web Driver

- ➢ Why Webdriver?

- ➢ Downloading Webdriver Dlls And Configuring In Visual Studio

- ➢ Architecture Of Selenium Webdriver

- ➢ Webdriver Interface In Selenium 3.0

- ➢ Drivers for Firefox, IE, Chrome, IPhone, Android Etc.

- ➢ Usage Of Webdriver Interface

- ➢ First Selenium Code

- ➢ Working With Chrome And IE

- ➢ Webdriver Desired Capabilities Class

- ➢ Proxy Settings With Webdriver/Working With Proxy Servers

- ➢ Inspecting Elements In Mozilla, Chrome And IE

- ➢ Concept Of Firefox Profile

- ➢ What Is Firefox Profile

- ➢ Why We Need Firefox Profile

- ➢ HTML Language Tags And Attributes

- ➢ Various Locator Strategies

- ➢ Web element Interface

- ➢ Identifying Web Elements Using Id, Name, Class

- ➢ Finding Xpaths To Identify

- ➢ Implicit Wait

- ➢ Absolute And Partial Xpaths

- ➢ Creating Customised Xpaths Without Firepath

- ➢ CSS Selectors

- ➢ Generating Own CSS Selectors

- ➢ Performance Of CSS Selectors As Compared To Xpaths

- ➢ What Is Class Attribute?

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➢ Handling Dynamic Objects/Ids On The Page

➢ Working With Different Browsers Without Changing Code

➢ Managing Input Fields, Buttons

➢ Managing/Identifying Links With Xpaths / CSS Selectors

➢ Get Attribute Function

➢ Concept Of List

➢ Extracting More Than One Object From A Page

➢ Extracting All Links Of A Page/Bulk Extraction Of Objects

➢ Extracting Limited Objects From A Web Page

➢ Extracting Objects From A Specific Area Of A Web Page

➢ Finding Response Headers/ Response Code

➢ Finding Whether Object Is Present On Page Or Not

➢ Hidden Components - Isdisplayed Function

➢ Clicking And Checking Links

➢ When You Don't Have Common Xpath

➢ Method 1-Find The Box

➢ Method 2-Pattern In Xpaths

➢ Handling Drop Down List

➢ Select Class In Selenium API

➢ Managing Radio Buttons And Checkboxes

➢ Explicit Wait

➢ Alert Management

➢ Taking Screenshots Of The Web Pages

➢ How To Google Out Errors-Self Sufficiency

➢ Popup Handling

➢ Managing Different Windows

➢ Close And Quit -Difference

➢ Concept Of Web tables

➢ Dynamic Web table Handling

➢ Extracting Data From Web table

➢ Web tables And CSS Selectors

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➢ Building Custom Functions For Web tables

➢ Get row with cell data Function

➢ Mouse Movement With Selenium - Actions Class

➢ Randomly Clicking/Selecting Objects - Randomising

➢ Dragging Dropping By Offset

➢ Attaching Files With Selenium / Usage Of Autoit

➢ Changing Your Facebook Profile Picture By Attaching New Picture

➢ Handling Ajax Auto Suggests

➢ Handling Frames In Web Page

➢ Managing JavaScript Alerts

➢ Calendar Control

➢ JavaScript executor And Its Importance

➢ Extract Names Of All Facebook Friends

➢ JobServe Exercise

➢ Yahoo Exercises - When Xpaths Change

➢ Automate Login Process And Read Data From Xls File

Database Testing With Selenium

➢ Installing Tomcat

➢ Creating Database Of CRM Application

➢ Downloading And Deploying The CRM Web Application On Tomcat

➢ Running The Web Application On Tomcat

➢ Running SQL command To Fire Conditional Select Query

➢ Validating Login Of Customer With The Database

➢ Validating Values Present In Drop list With That Of The Database

➢ Validating Whether Values Filled By User Are Getting Stored In The Database Or Not

➢ Using Assertions For Validations

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