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CELEBRATING 21st ANNIVERSARY

SELENIUM WITH C#

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About LiveTech

LiveTech was founded in 2004 by IT industry professionals to impart quality training and carve a niche in the IT training industry. LiveTech has successfully skilled 100000+ professionals in Software Testing and Development Domain. LiveTech is involved in training on Software Courses for over 21+ years. LiveTech is a leader in creating not only skilled professionals but also enhance their Employability through real time project implementation Training in Software Testing and Development. The programs are designed by Industry experts and backed by certifications recognized globally in I.T Solutions.

Selenium With c#

Module 1 :	Introduction to Auto Testing
Module 2 :	Basic of C#
Module 3 :	Object Oriented Programming
Module 4 :	Database Testing
Module 5 :	Frameworks

Selenium With c#

Introduction to Automation Testing

- What is Automation Testing?
- Definition and Importance
- Manual vs. Automation Testing
- Benefits of Automation Testing
- Time-saving
- Improved Accuracy
- Reusability of Test Scripts

Setting up the Environment

- Installing Visual Studio
- Overview of Visual Studio IDE
- Installation Steps

Basics of C# Programming for Selenium

- 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, AAARRAYS 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
- 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

NAMESPACE, ACCESS MODIFIERS/EXCEPTION HANDLING

- Relevance of Namespaces
- Creating Namespace
- Accessing Classes Across Names paces
- Good Features of Visual Studio

- Accessing modifiers - Public, Private, Default, Protected
- Exception handling with try catch block
- Importance of exception handling
- Application Exception and System Exception
- Exception Class
- Final and Finally
- Throw and Throws
- Different Types of Exceptions

Collections

- Types of Collections in C#
- Introduction to Generic Lists
- Adding, Removing, and Accessing Elements
- List Methods and Properties
- Adding, Removing, and Accessing Key-Value Pairs
- Dictionary Methods and Properties
- Adding, Removing, and Checking Elements
- HashSet Methods and Properties

Element Identification

- Inspecting elements in Firefox, Chrome and Edge
- HTML language tags and attributes
- Various locator strategies
- WebElement Interface
- Identifying Web Elements using id, name, class
- Finding Xpaths to identify
- Absolute and partial Xpaths
- Creating customised Xpaths without fire path
- Css selectors
- Generating own Css selectors

- Performance of Css Selectors as compared to Xpaths
- What is class attribute?
- 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

Handling Different Web Elements with Selenium WebDriver using C#

Handling Text Boxes

- Sending Text
- Clearing Text
- Sending Text
- Clearing Text
- Retrieving Text Box Value
- Asserting Text Box Content

1. Handling Buttons

- Using ID, Name, XPath, CSS Selectors
- Clicking Buttons
- Validating Button State (Enabled/Disabled)
- Handling JavaScript-Driven Buttons

2. Handling Links

- By LinkText and PartialLinkText
- Clicking Links
- Retrieving Link URLs
- Strategies for Dynamic Content

3. Handling Radio Buttons

- By Name, XPath, CSS Selectors
- Clicking to Select
- Validating Selection
- Managing Radio Button Groups

4. Handling Checkboxes

- Using Various Locators
- Checking and Unchecking
- Validating Checkbox State
- Selecting Multiple Options

5. Handling Dropdowns

- By ID, Name, XPath, CSS Selectors
- Using SelectElement Class
- Selecting by Index, Value, Text
- Retrieving Selected Option

6. Handling Alerts and Popups

- Accepting and Dismissing Alerts
- Retrieving Alert Text
- Switching to Popup Windows
- Interacting with Popup Elements
- Automating Login Popups

7. Handling Frames and iFrames

- Identifying Frames, iFrames and handing frames
- Using webDriver's switch to method
- Locating and interacting with nested elements
- Handling file uploads and downloads
- Automating file uploads
- Using sendkeys method
- Handling OS file dialogs with autolt/sikuli
- Handling tables
- Locating table elements
- Interacting with table data
- Retrieving cell data
  Handling frames
- Using WebDriver's switch to method

- Locating and Interacting with Nested Elements

8. Handling File Uploads and Downloads

- Automating File Uploads
- Using SendKeys Method
- Handling OS File Dialogs with AutoIt/Sikuli

9. Handling Tables

- Locating Table Elements
- Interacting with Table Data
- Retrieving Cell Data
- Validating Table Content
- Handling Dynamic Tables

10. Synchronization with Web Elements

- Implicit Waits
- Setting Up Implicit Waits
- Explicit Waits
- Using WebDriverWait and ExpectedConditions

Frameworks

TDD frameworks - NUNIT and MSTest

- Assertions
- Parameterizing tests
- Skipping tests
- Parallel execution using NUNIT
- Running a test in Nunit, MSTest
- Nunit and MSTest annotations
- Installing Nunit, MSTest
- Why Nunit, MSTEST
- Difference between NUNIT and MSTEST

- Creating of Test cases in MSTEST and NUNIT

BDD Framework – Specflow

- Installation of BDD Specflow
- Assertions
- Creation of scenarios with parameters
- Difference between scenario and Scenario Outline
- Creation of Hooks
- Test Scenario execution

Introduction to Selenium

- Why WebDriver?
- Downloading WebDriver dlls and configuring in visual studio
- Architecture of selenium webdriver
- WebDriver Interface in Selenium
- Drivers for Firefox, Edge, chrome etc
- Usage of webdriver interface
- First Selenium Code
- Working with chrome, Firefox and Edge

WebDriver Desired Capabilities Class

PAGE OBJECT MODEL

- Introduction to POM
- Concept of inheritance
- Concept of encapsulation
- Initialising connection string
- My SQL connection / SQL server connection class
- My SQL command / SQL server command class
- My SQL data reader SQL server reader class

- Firing select, insert, update and delete queries with database
- Looping the SqlDataReader

Faculty : ....

Date : ....

Time : ....

Duration : ....

Fee : ....

Comments : ....

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ARETEANS Excel it · mutualmobile · XIUS INNOVATE · LEAD · people TECH · TECHNOLABS · VOLTUSWAVE

Placed Students

Name	Company	CTC
G.Sravani	Black Hawk	10 LPA
T. Premsai	Zemoso	6.89 LPA
V. Balaraju	Zemoso	6.89 LPA
SN. Nagarjuna	Cerner	6.0 LPA
Anjali Kumari	e-Team info services	4.5 LPA
D. Supriya	First American	4.4 LPA
CH. Mohan Gopi Krishna	First American	4.4 LPA
K. Alekhya	Darwinbox	4.32 LPA
K. Bhanu	Darwinbox	4.32 LPA
G.Venkatesh	Darwinbox	4.32 LPA
M.Sravani	IBM	4.2 LPA
D.Vishnu Sagar	Delta Technology	4.0 LPA
MD. Rashid Jawaid	Delta Technology	4.0 LPA
N.Spandana	Delta Technology	4.0 LPA
A. Jaya Krishna	Delta Technology	4.0 LPA
K. Alekhya	Delta Technology	4.0 LPA
N.Kavya	Delta Technology	4.0 LPA
G. Rambabu	JD Sports Fashion	4.0 LPA
D. Srividya	Darwinbox	4.0 LPA
A. Satya Prakash	Corpus	3.6 LPA
N.Suresh	Corpus	3.6 LPA
S. Divya	Infosys	3.6 LPA
M. Lokesh Reddy	Infosys	3.6 LPA
KLV. ShivaSai	Darwinbox	3.6 LPA
T. Vineetha	Darwinbox	3.6 LPA
Sushmitha	TCS	3.53 LPA
C. Hasini	Gaian Solutions	3.5 LPA
M.Ramya	Gaian Solutions	3.5 LPA
M. Shivakumar	Gaian Solutions	3.5 LPA
B. Sandhya Rani	Gaian Solutions	3.5 LPA
E. Bharathi	Gaian Solutions	3.5 LPA
D. Sowmya	Gaian Solutions	3.5 LPA
B. Sravani	TCS	3.5 LPA
V. Rakesh	Defteam	3.5 LPA
Ajay Jikare	TCS	3.36 LPA
Govind Dasharathe	TCS	3.36 LPA
K.Tharun	Piersoft	3.0 LPA
B. Ananya	Pronix	3.0 LPA
Poorna	Capgemini	3.0 LPA
T. Kalyankar	Infosys	3.0 LPA
Vijay Reddy	NCR	3.0 LPA
M. Vandana	Smart Data	3.0 LPA
M. Gopi	Smart Data	3.0 LPA
S.Venkat Reddy	Aryagami Cloud	2.76 LPA

Full Stack TESTING
Test Engineer
3-Months

Full Stack JAVA
Java Developer
4-Months

Full Stack PYTHON
Python Developer
3-Months

Training Methodology

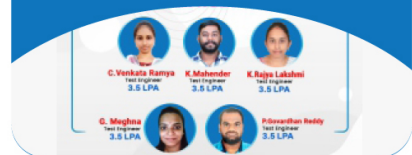**Class room Training**

Project Training

Resume Preparation

Certification

LiveTech
Enrollment: LT230501
TRAINING COMPLETION
CERTIFICATE
This is to certify that
Venkata ramana reddy
has completed TESTING TOOLS with PROJECT training in LiveTech Hyderabad(TS) from Jan-2023 to Mar-2023

Interview Preparation

Placement Assistance

C.Venkata Ramya
Test Engineer
3.5 LPA

K.Mahender
Test Engineer
3.5 LPA

K.Rajya Lakshmi
Test Engineer
3.5 LPA

G. Meghna
Test Engineer
3.5 LPA

P.Govardhan Reddy
Test Engineer
3.5 LPA

Our Infrastructure

4th Floor,
iri Block, Adithya Enclave.

Nilgiri Block, Adithya Enclave
LiveTech
LiveTech
#410, 4th Floor, Nilgiri Block
#410, 4th Floor