

TESTING TOOLS

This course is to understand the Software Testing Process, Methodologies, Life Cycles and techniques used to validate a software system. It covers different software testing methods like System Testing, Functional, Load & Performance, Security testing etc... Different testing processes such as Manual and Automation Testing using QTP and Selenium Tools.

Course Content

Selenium

Duration: 30 Days

Introduction

- What is automation testing
- When best to go for automation
- Advantages of Automation
- Criteria for Automation

Introduction to Selenium

- What is Selenium
- Use of selenium
- When selenium can be useful in testing
- Features of Selenium
- Differences between Selenium and QTP

Selenium Components

- Selenium IDE
- Selenium RC
- Selenium Webdriver
- Selenium Grid

Configuration of IDE & Dev Scripts

- Recording the script
- Running the script
- Script
- Object Identification
- Difference between Testcase and Test suit
- Languages supported while Recording
- Synchronization in Selenium IDE
- Testing Vs Selenium IDE
- When to use Selenium IDE
- How to run the recorded script
- Against other browsers
- Why companies are not using Recording tools

Creating the Environment for Selenium RC

- Creating generic scripts in Selenium
- Creating scripts by using Functions
- Running the scripts in Eclipse
- Inheritance
- Browser commands with examples
- Interactive commands with examples
- Information commands with examples
- Validation commands with examples
- How to take data from excel sheets
- Why should we use excel sheets
- How to take large no of data from excel sheets
- How to export data to an excel sheets
- Export large no of data to an excel sheet
- How to export results after completion of execution the script
- How to use Eclipse
- Debugging the script
- Maintaining synchronization Points
- How to handle Popups and alert messages
- Recognizing Similar Elements
- Working with Table Elements
- Connecting to Database

Developing reusable script

- Validations
- What is validation
- What is the use of validation in Automation testing
- When to use validation in realtime
- How to use validations



Core Java Fundamentals Language Fundamentals

- Java Programming Language Keywords
- Class and Object
- Data Types
- Array Declaration, Construction and Initialization

Flow Control, Exceptions, and Assertions

- Writing Code Using If and Switch Statements
- Writing Code using Loops
- Handling Exceptions
- Working with the Assertion Mechanism

Object Orientation, Overloading and Overriding, Constructors

- Benefits of Encapsulation
- Overridden and Overloaded Methods
- Using the java.lang.String Class
- Using the java.lang.Math Class
- Using Wrapper Classes
- Using the equals() Method with Strings, Wrappers and Objects

Defining, Instantiating, and Starting Threads

- Preventing Thread Execution
- Synchronizing Code
- Thread Interaction

JUnit Introduction

- Proving it works
- Starting from scratch
- Understanding unit testing Frameworks
- Setting up JUnit
- Testing with JUnit

Object repository

- What is object repository
- How to use object repository in Framework
- What is the use of maintain Object repository
- Types of creating object repository

Selenium 2 / Web Driver (Advanced)

- Selenium 2.0 Features
- The Selenium Server – When to Use it
- Setting up a Selenium – Web Driver Project
- Migrating from Selenium 1.0
- Getting Started with SeleniumWeb Driver
- Introducing Web Driver’s Drivers
- Commands & Operation
- Web Driver backed Selenium RC
- Programs on Web Driver
- Programs on Web Driver Backed
- Selenium RC

TestNG Framework

- What is TestNG
- Create TestNG.xml file
- Integrate the Selenium Scripts and Run from TestNG
- Reporting Results & Analyze
- Run Scripts from Multiple Browsers

Automation Life Cycle

- What is a Framework
- Types of Frameworks
- Modular framework
- Data Driven framework
- Keyword driven framework
- Hybrid framework & Use of Framework
- How develop the framework
- Integration of the framework
- How execute the scripts from framework



Other Courses Available:

- C, C++ and DS
- JAVA, ANDROID
- DOT NET (C#.NET, VB.NET, ASP.NET)
- EMBEDDED
- SAP (ABAP/FICO/SD/MM/PP/BASIS etc...)
- IELTS
- MEDICAL CODING

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