

Appium Course Content :

Introduction to the Automation Testing , Environment Setup and Tools:-

- Introduction to Testing tools
- Introduction to Automation Testing
- Different Types of Automation Tools
- Functionality of the Testing Tools
- Performance Testing Tools
- Test Management Tools

Introduction to Appium & Mobile automation Testing:-

- Introduction to Mobile automation testing
- Selenium 3.0 and APIs
- Automation for IOS and Android devices
- How to run the scripts on Emulators
- How to run the scripts on Real devices
- Different tools available for Mobile automation testing
- Understanding of API Levels and *Appium* Concepts
- Client/Server Architecture, Session, Desired Capabilities, *Appium* Server and *Appium* Clients

JDK, Maven and Android SDK Installations:-

- Appium Pre-requisites.
- Supported Java versions
- environment variables configuraton

- Jdk download and installation process
- Maven download and installation process on Windows
- Downloading Android SDK
- Taking a look at available Android Virtual Devices

Appium Installation process on Windows:-

- Visiting *Appium.exe*
- Downloading *Appium* for Windows
- Downloading *Appium* jars and other dependencies
- Configuring SDK Manager
- Downloading different Android API levels
- Setting up Android environment variables
- Downloading *Appium* GUI Tool
- Understanding Application path, Package & Launch Activity
- Starting *Appium* Server
- Running a sample test to make sure everything works fine

Downloading Appium Dependencies:-

- Understanding Desired capabilities class
- Extracting Packages and Activities information of pre and post installed apps
- Downloading *Appium* Maven Dependencies
- Adding Device Name
- Connecting real device to USB and running ADB commands

Starting the Appium server programmatically Windows OS:-

- Starting the *Appium* server through code / programmatically on Windows

- Downloading *Appium* Maven Dependencies
- Stopping the *Appium* server
- Kill all nodes

UI Automaton Viewer:-

- Opening UI Automaton Viewer through SDK tools kit
- Understanding different locator strategies
- Taking the Device screenshot
- Device screenshot with Compressed hierarchy
- Understanding the different locator tags

Inspection of Appium:-

- What is *Appium* Inspector?
- How and when to run it?
- Record and Play using *Appium* Inspector
- Locating elements with the help of *Appium* Inspector
- Inspector will only run with active session

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

Additional Framework Features:-

- Execution with ANT
- Execution with Maven
- Execution with Continuous Integration tool i.e., Jenkins

Object Locators and Techniques:-

- Locating Elements on the App
- What all can be locatable
- Locating elements within elements
- Locating multiple elements
- Find Element By Android UIAutomator
- Exploring UIAutomator API
- Finding Elements by ClassName
- Finding Elements by ids
- Finding Elements by Xpaths
- Using different functions inside UIAutomator class Exercises

Testing Android Native, Hybrid & Web Apps on Windows:-

- Native App Test – Making a call with Internal Dialer Application
- Native App Test – Adding a new contact to Phonebook
- Native App Test – Sending SMS from a real device
- Native App Test – Automating a standard App
- TouchActions and Events – Handling user gestures
- WebApp Test – Automating Web based testing on Chrome Browser
- Hybrid App Test – Automating the mobile messaging app

Unit Test Framework:-

- JUnit Introduction
 - JUnit Annotations
 - JUnit Implementation in Selenium RC/ Web Driver Scripts
- TestNG Introduction

- TestNG Annotations
- TestNG Implementation in Selenium RC/ Web Driver Scripts
- Difference between JUnit and TestNG

Java:-

- Setting up Java Environment in windows platform
- Object – Oriented Programming Concepts
- Classes and Objects, Interfaces , Encapsulation, Access and Non-Access Modifiers
- Variables , Methods and Arrays
- Inheritance, Abstraction and Polymorphism
- Collections , loop concepts and if-else statements
- File I/O, Exception Handling , Code Debugging and Java API Understanding
- Practice Programs in the Java Concepts
- JDBC – Database Testing Introduction
- Handling Sql Server database using JDBC scripts

Miscellaneous:-

- Resume Preparation
- Job Assistance
- Help of Interview Questions and Answers by Real-Time Faculty