Appium Training Course Content

Automation Testing Introduction, Environment Setup and Tools

* Introduction to Testing
* Introduction to Automation Testing
* Types of Automation Tools
  + Functionality 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
* Running the scripts on Emulators
* Running the scripts on Real devices
* Various tools available for Mobile automation testing
* Understanding the API Levels and Appium Concepts
* Client/Server Architecture, Session, Desired Capabilities, Appium Server and Appium Clients

Installing JDK, Maven and Android SDK

* Pre-requisite for starting with Appium
* Supported Java versions
* Configuring environment variables
* Downloading and Installing JDK
* Downloading and installing Maven on Windows
* Downloading Android SDK
* Taking a look at available Android Virtual Devices

Java

* Setting up Java Environment in windows platform
* Java Project Structure
* Syntax & Keywords
* Variables , Methods and Arrays
* Collections , loop concepts and if-else statements
* String Handling
* Exception Handling
* File I/O, Exception Handling , Code Debugging and Java API Understanding
* Practice Programs in the Java Concepts
* Object – Oriented Programming Concepts
* Classes and Objects, Interfaces , Encapsulation, Access and Non-Access Modifiers
* Collection – ArrayList, List, Set, HashMap e..t.c
* JDBC – Database Testing Introduction
* Handling Sql Server database using JDBC scripts
* XML Parsing
* Log4j

Basic installation for Appium 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, Desired Capabilities, Packages & Activities information**

* 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

**UIAutomator Viewer**

* Opening UIAutomator Viewer through SDK tools kit
* Understanding different locator strategies
* Taking the Device screenshot
* Device screenshot with Compressed hierarchy
* Understanding the different locator tags

**Appium Inspector**

* 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

**Miscellaneous**

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