**Appium Introduction**

* Course Agenda
* Appium Feautures
* What makes Appium a future of mobile Automation
* Appium Internal Architecture

**Appium Installation on WINDOWS for Android Automation**

* Installing Android Studio and Java
* Configuring System variables for both Android SDK and Java
* Downloading Eclipse and Installing ADT Plugin
* New update on Installation
* Configuring ADT plugin settings in Eclipse
* Installing Appium Server and Jars
* Creating Eclipse project and Configuring Appium selenium jars
* Brushup Java concepts

**Appium Installation on MAC for IOS Automation**

* What is Xcode? Install Xcode
* Validating IOS Simulator and Downloading Java
* Installing Eclipse IDE for MAC
* Downloading Appium/Selenium Jars

**APPIUM first program**

* Desired Capabalities concepts
* Invoking Android Virtual Device
* First Program explaining Mobile Capablities
* Android Driver Invocation

**Native APPS Automation**

* Program on Invoking Apps
* UI Automator Tool to identify objects
* Automating app UI Using of ID,Xpath ClassNames
* Appium API's for UI interaction
* Mobile Gestures Automation
* UI Selector class in handling Advanced API's
* AndroidKeyEvents Handling
* Procedure for downloading App in Emulator(Virtual devices)
* Automation on real devices
* Invoking App with package Activity
* Example on package name and Activity Invoking apps

**Live Examples on Device APPS**

* Music App- Testcases to Automate
* Practise Exercise-1 (Covers Mobile Gestures)
* Practise Exercise- 1.2 (Covers Core Appium Api)
* Languages App- Testcases to Automate
* Practise Exercise 2.1-(Appium+Webdriver logic)
* Practise Exercise 2.2- (Android Key Events)
* ecommerce App-Installing app into Device
* Practise Exercise -3.1-Handling Image Banners
* Practise Exercise -3.2-Handling Scrollable Menu,Popups
* Practise Exercise -3.3-Handling checkboxes,Radiobuttons,Dynamic Texts

**Web APPS Automation**

* Chrome Browser Configuration setup in Mobile
* Automating the Chrome Mobile Browser
* UserAgent-Identifying objects in Mobile Browser
* Automating Mobile Specific Web Sites
* Exercise on Real Device-Mobile Browser Automation
* TroubleShooting the Real device to make recognize
* Testcase- Automating Udemy Mobile View Site
* Exercise 1.2 -Getting Xpaths from Mobile Browser
* Exercise-1.1 -Chrome Remote Debugging Technique
* Exercise-1.3 -Automating Udemy Site in Mobile Browser

**Practical Problems and solutions with Mobile Browsers**

* Problem - Description
* Idenitifying frames from Html view
* Element Hidden or Invisible-How to validate
* Writing Generic functions to Identify Frames/Windows
* Example Demonstrating Multiple Frames
* Handling Auto suggestive dropdown options
* Dynamic data loading- Excpetion Techniques

**Hybrid APPS Automation**

* Hybrid Apps features and ways to test them
* Views switching Mechanisim
* Example on Hybrid App handling

**IOS Automation with Appium on MAC**

* IOS Testing Introduction
* IOS App Download
* Desired Capabilities for invoking IOS Apps
* IOS Driver Invocation
* Running IOS first Automation Testcase
* How to Identify objects in IOS App- Appium Inspector
* Magic of Appium Inspector on IOS Apps
* Handling IOS Controlls with Appium
* Practise Exercise on Switches -1
* Practise Exercise on Scrolling Cycles -2
* Practise Exercise on Scrolling wheels -2.1
* Handling IOS Alerts Buttons with Appium
* Practise Exercise on Alerts -3
* Safari Mobile Browser Automation configuration
* Useragent to get Safari Browser objects
* Practise Exercise on Safari Mobile Browser

**Appium Framemwork- Part 1- Learn TestNG Basics**

* TestNG Installation and Setup in Eclipse
* TestNG Basic Annotations role in desigining Framework
* TestNg Annotations in depth
* Importance of TestNG Prerequiste Annotations
* Annotations code dump download
* Importance of TestNG xml file in Framework
* Including and excluding the Testcases from Execution with TestNG xml file

**Framework Part 2 -Maven (Build Management tool)**

* Introduction to Maven
* Configuration of Maven
* Creating basic Maven Project
* Importance of Maven POM.xml file
* Creating Appium-Maven project
* Importing Appium Maven dependencies
* Running Appium scripts in Maven

**Framework Part3-Integrating TestNG with Maven**

* Creating TestngXMl file for Appium Maven Project
* Creating Multiple Testsuites and configuring them in xml files
* Running Appium Server Programatically
* Creating Bat file and commands to trigger Appium server
* Appium Server start Code
* Creating Multiple TestNG profiles and triggering from Maven
* Running end to end framework on single click with Maven

**Framework Part 4-Scheduling in Jenkins CI Tool**

* Why Jenkins? Jenkins Advantages
* Installing & Configuring Jenkins for Appium Project
* Deploying Framework in Jenkins and Triggering the build
* Scheduling the Framework to run at 10AM daily with Jenkins
* Jenkins Commands

**Page Object Model**

* What is Page object model?
* Creating Page object Constructor in classes
* Object repository Mechanism
* Practical Exercise explaining Pageobject Model

**Data driving from Excel for feeding data into Appium Testcases**

* what is Apace POI API & Download Instructions
* Excel API Methods explanation
* Program for Retreiving data from excel
* Program for Updating data back to excel
* Code download on Excel API
* DataDriven Testing Using POI and TestNG