

Mobile Automation Testing - APPIUM

40 Hr.

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 and Android SDK

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

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

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

- TestNG Introduction
- TestNG Annotations
- TestNG Implementation Web Driver Scripts
- Difference between JUnit and TestNG