



ADEMIZE SOLUTIONS

Course Outline

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Welcome to our Course

Learn Everything You Need to Know About Mobile Automation Even If You've Never Programmed Before.

On course completion You will be Mastered in Mobile Automation Testing in both Android & IOS and can implement Successfully it in your workplace or will surely land on High Paying Job.



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What you will learn in this Course

- >By the end of this course, you will be able to automate any (Native, Hybrid, Web) Apps in Android/IOS using Appium.
- >Thorough Understanding on Appium best practices and reusable utilities for automating Apps on both Real devices and Emulators.
- >Design the Industry Standard Mobile framework from Scratch.
- >Implement end to end CI/CD pipeline from scratch using Appium with all framework features like logging, reporting etc.
- >Design Appium Framework with open-source technologies like Learn Maven, TestNG, Jenkins, JUnit, Git, Extent Reports and Apache Log4J2.
- >Automate Mobile Browsers like Chrome & Safari with Appium WebDriver Library under hood.
- >You will know the coding standards in writing the most optimized Mobile Automation Scripts.
- >You will be able to create GREAT LOOKING REPORTS using the best advanced REPORTING TOOL.
- >"Last but not least" you can clear any Interview and can Lead Entire Appium Automation Project from Design Stage.



THE KEY TAKEAWAYS FOR THE COURSE

- ✓ Always be learning
- ✓ Know that you don't know
- ✓ Ask for Help if necessary
- ✓ There's always a solution



Course Outline

Introduction to Appium and Course Plan

- > Course Agenda.
- > Appium Features
- > Appium Internal Architecture.

Appium Installation Instructions for Windows

- > Download Java, Android Studio & Node software for Appium Setup.
- > Set Environment variable Paths of all software in Windows.
- > Configure Android Virtual Device/Emulator and Install Appium Server.
- > Setting up Appium Maven project with Java client dependencies.
- > Caution on Compatible TestNG Java version along with Plugin Install.

Brush up Java Concepts for Appium Automation

- > Course Strategy to learn Appium basics for Selenium Automation.
- > Introduction to Java variables and Data types with examples.
- > What are Arrays in Java? How to initialize and retrieve the values of array.
- > Introduction to For loop to iterate over array of Strings and Integers.
- > Enhanced for loop declaration & using Conditional statements inside the loops.
- > What is ArrayList and differences between ArrayList and Arrays.
- > Strings in Java - How to declare Strings & Important String methods.
- > How to create methods and access methods using Java class objects.
- > What is Inheritance in Java with example.

Getting Started with Mobile testing using Appium Code

- > What is UIAutomator and creating UiAutomator object to define Capabilities.
- > How to start & Stop Appium Server Programmatically using AppiumServiceBuilder.
- > Introduction to Appium Inspector to identify the elements on the Apps.
- > Creating Base Class with Util methods and extend it to Child Appium Tests.



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In Depth understanding of Android Native Apps automation with Appium

- > Introduction to Id, Xpath & Accessibility ID locators in App with an example.
- > How to handle Mobile popups & return list of matching elements on Android app.
- > How to extract the text & Enter the info on Mobile Apps with Appium.

Advanced Gestures Automation with Key Events Handling using Appium

- > Introduction to Appium Mobile Gestures and how it works.
- > How to long press on Android Apps using Appium – LongPressGesture.
- > How to Perform Scroll Gesture using Appium on Android Apps.
- > How to automate Swipe functionality using Appium on Android.

Appium Miscellaneous Topics for Android Automation

- > How to Perform Drag & Drop on elements in app using Appium.
- > Assignment - End to end exercise on Appium.
- > Automate Miscellaneous Activities like orientation & KeyEvents using Appium.
- > How to open App using app packages and activity name using Appium.

Real time Ecommerce App- End to end Practice Exercises

- > Test Case in Filling the form details for shopping.
- > Verifying toast messages for error validations.
- > Test Case-Scrolling in product list example with Appium Android scroll.
- > Test Case-Dynamically selecting Product by scanning list based on text.
- > Test Case- Validating Total amount generated functionality.
- > Code optimization with user defined functions.
- > Test Case - Validating Mobile Gestures of App (Tap, Long Press).



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Hybrid App Automation with Appium to switch from Apps to Web browser

- > How do you handle objects when rendered in Web view?
- > Test Case -Automate Hybrid App with context Switch using Chrome Driver.

Mobile Chrome Browsers Automation with Appium - Real time examples

- > Desired capabilities to run Appium tests on Mobile browser.
- > How to Scroll and put assertions on Browser Tests with Appium.

Automate IOS Advance Gestures functionalities with Appium

- > Introduction to IOSClassChain locator and its usage in IOS Script.
- > Introduction to IOSPredicateString and its usage to automate IOS App.
- > End to End IOS Automation example using IOS Unique locators.

IOS Gestures Swipe, Scroll, Long Press Automation with Appium

- > How to long press on IOS Apps using Appium.
- > How to perform Scrolling on IOS App using Appium.
- > How to automate IOS Picker components using Appium.
- > How to automate Sliding in IOS App using Appium.

Automate In-built IOS Apps with Appium

- > Work on the existing IOS Apps in Simulator using BundleID- Example.
- > Automate inBuilt Photos App in IOS devices using Appium.
- > Automate Swiping functionality on IOS devices using Appium.

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IOS Real device Automation Testing guidelines with example

- > Work on the existing IOS Apps in Simulator using BundleID- Example.
- > Automate inBuilt Photos App in IOS devices using Appium.
- > Automate Swiping functionality on IOS devices using Appium.

Framework Part 1- Code Design patterns in writing Android & IOS Automation Tests

- > Understand the importance of framework design - Getting started with Project.
- > Introduction to Page object Factory and design Implementation idea.
- > Create Action methods in the Page object file to drive into tests.
- > Inherit Android Actions class to page object classes for reusable methods.

Framework Part 2- Code Design patterns in writing Android & IOS Automation Tests

- > Part 1 - Implement Page object file for Product Catalogue page with actions.
- > Part 2 - Implement Page object file for Product Catalogue page with actions.
- > Part 3 - Implement Page object file for Cart page with actions.
- > Part 4- Convert IOS test into Page object Pattern.
- > Part 5- Convert IOS test into Page object Pattern.



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Framework Part 3- Implementing Test Strategy & Building Reusable Util methods

- > Implement Appium Utils class which will be the super class of Android & IOS.
- > Implement Test Strategy on deciding how to run tests in a file.
- > Implement Test Setup & Test tear down methods for each Test method.
- > How to run all tests together using Single TestNG.xml file.

Framework Part 4- Data Driven testing with Parameterization for Appium Tests

- > Implement Data driven testing to TestNG tests using Data provider.
- > Parameterize the test data with multiple data sets using TestNG dataprovider.
- > How to drive the data from Json files and load into Hashmap for parameterization.
- > Data utility which reads json and parse it for TestNG Dataprovider input.
- > Fix the issues on how driver is passed to AppiumUtils and pageobject files.

Framework Part 5- Setting up Global Configuration variables & generating Reports

- > Optimize Android & IOS Base Tests with reusable methods from AppiumUtils.
- > Create Global properties file and read the global values from the file.
- > Introduction to Extent reports
- > Create extent object and set it in the TestNG Listeners for automatic reports.
- > Run End to end Appium tests with generated extent HTML reports.

Framework Part 6- Screenshots, TestNG Listeners, Maven Integration with Jenkins

- > How to take automatic screenshots o Test failures & attach to report.
- > How to run selected tests from pool of tests using TestNG groups.
- > How to trigger the Framework tests using Maven commands and options.
- > How to send run time parameters from maven commands to Tests.
- > Setting up Jenkins CI/CD tool in local machines.
- > Integrate the Appium Framework with Jenkins and Schedule, Parameterize the job.



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About Ademize

Learn . Grow . Succeed

Ademize Solutions is a US based IT Development & IT Training company committed to provide end-to-end IT Development Solutions and IT Training for becoming best IT Engineer.



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