# Appium

# Introduction

## Open source Test Automation Framework for Automation Mobile Software Application.

Three types of mobile software application

A. Native Application: (native apps)

* live on the device and are accessed through icons on the device home screen.
* installed thorough an application store (such as google play, apple's app store)

B. Mobile Web Apps:

* these are not real mobile app.
* they are web sites stored on a remote server and delivered over the internet through a web browser.

C. Hybrid Applications:

* are the native app run on the device.
* they have integration with device's file system and integration with web services.

## Appium supports IOS and android devices it drives android and IOS apps using WebDriver protocol.

## Appium enables Android and IOS automation using selenium WebDriver. The same WebDriver binding

can be used across web and mobile.

## It is Cross-platform, single API works for both android and IOS platforms.

(same tests can be for both ios and android.)

## Appium supports all languages that have Selenium client libraries like,

java

PHP

Ruby

Python

C# etc ..to creat test scripts.

## Appium supports Software test automation in emulators or simulators and physical

devices too.

-- Emulator or Simulator because

>testing on real devices is expensive, enulators or simulators or virtual environments not only

expand our testing coverage to more devices but also quick and easy way to test.

## Prerequisite to use Appium.

i) Android SDK

ii) JDK

iii) TestNG

iv) Selenium Server JAR

vi) WebDriver language binding libary

Vii) Appium for windows

## 8. Start Code:

@Test

public void test1() throws MalformedURLException{

**// Create object of DesiredCapabilities class and specify android platform**

DesiredCapabilities capabilities=DesiredCapabilities.android();

**// set the capability to execute test in chrome browser**

capabilities.setCapability(MobileCapabilityType.BROWSER\_NAME,BrowserType.CHROME);

**// set the capability to execute our test in Android Platform**

capabilities.setCapability(MobileCapabilityType.PLATFORM,Platform.ANDROID);

**// we need to define platform name**

capabilities.setCapability(MobileCapabilityType.PLATFORM\_NAME,"Android");

**// Set the device name as well (you can give any name)**

capabilities.setCapability(MobileCapabilityType.DEVICE\_NAME,"my phone");

**// set the android version as well**

capabilities.setCapability(MobileCapabilityType.VERSION,"5.0.1");

**// Create object of URL class and specify the appium server address**

URL url= new URL("http://127.0.0.1:4723/wd/hub");

**// Create object of AndroidDriver class and pass the url and capability that we created**

WebDriver driver = new AndroidDriver(url, capabilities);

**// Open url**

driver.get("http://www.facebook.com");

**// print the title**

System.out.println("Title "+driver.getTitle());

**// enter username**

driver.findElement(By.name("email")).sendKeys("mukesh@gmail.com");

**// enter password**

driver.findElement(By.name("pass")).sendKeys("mukesh\_selenium");

**// click on submit button**

driver.findElement(By.id("u\_0\_5")).click();

**// close the browser**

driver.quit();