



Appium Introduction

A powerful automation testing framework for mobile application



What is Appium?

Appium is an open-source automation framework for **mobile** and **desktop** applications.

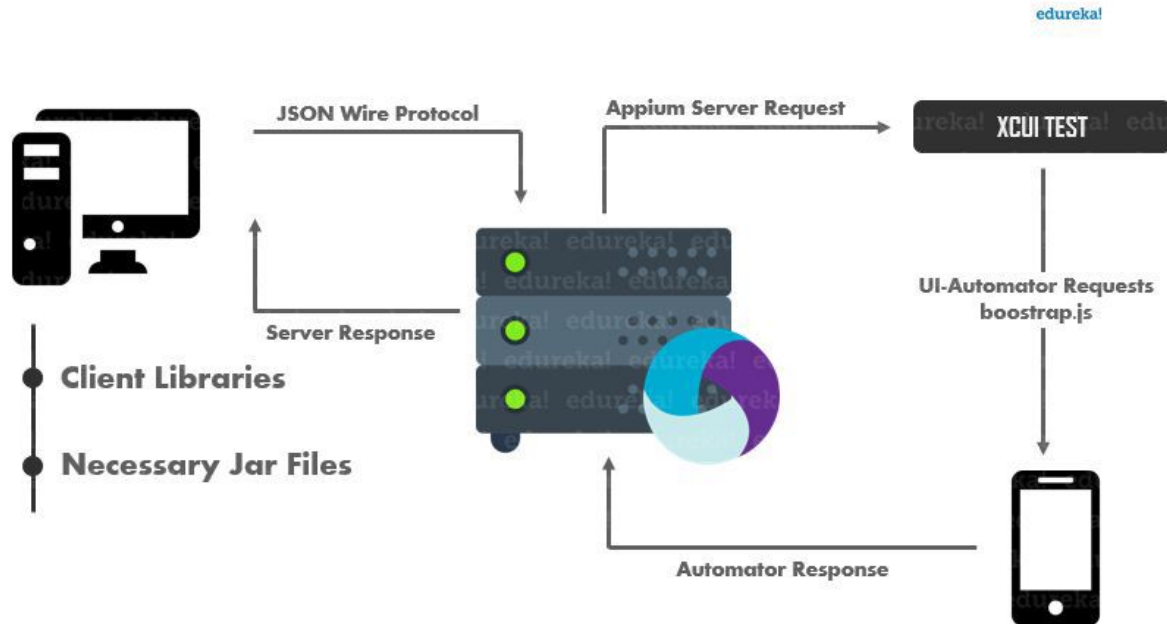
Advantages:

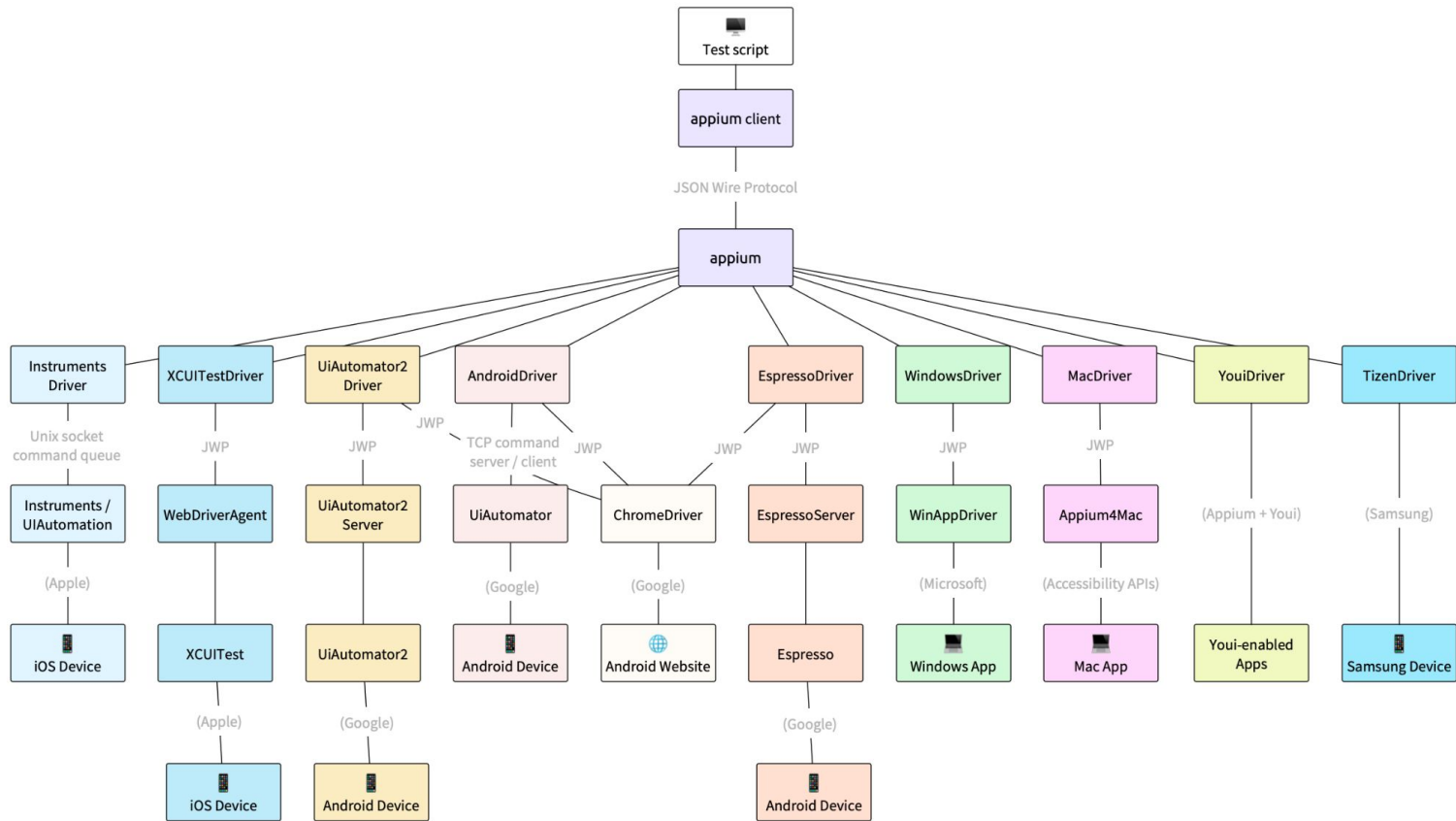
- Open Source: Appium is an open-source project, which means it is freely available and has a large and active community of contributors.
- Support Multiple Programming Languages: Java, Python, JavaScript, Ruby, C#, etc.
- Cross platform: supports Android, iOS, Windows, MacOS, etc
- Real Device & Emulators: Supports real device, cloud device, emulators and simulators

Disadvantages:

- Complex setup and configuration (can be solved using cloud testing)
- Resource Intensive

Appium Architecture







Mobile Application Types

- Native Mobile Applications:

Native apps are developed specifically for a single mobile platform, such as iOS or Android, using platform-specific programming languages and development tools

- Web Mobile Applications (Mobile Websites):

Web apps are developed using web technologies like HTML, CSS, and JavaScript. They are accessed through a mobile web browser (e.g., Safari, Chrome) and do not require installation from an app store.

- Hybrid Mobile Applications:

Hybrid apps are built using web technologies (HTML, CSS, JavaScript) like web apps but are wrapped in a native container or WebView component.



Appium Locators

Common Locators:

- Id, name, XPath
- AccessibilityID

Android:

- UiAutomator Locator

iOS:

- iOS Class Chain Locator
- iOS Predicate String Locator



Appium Gesture

Gestures we can perform using W3C Actions API (Pointer Actions)

- Click and hold / Long Press
- Swipe
- Scroll
- Drag and drop
- Zoom in / Zoom out



Extent Report

1. Add extentreports-cucumber7-adapter dependency (this is especially for cucumber 7)
2. Add plugin “com.aventstack.extentreports.cucumber.adapter.ExtentCucumberAdapter:” in test runner
3. Add “extent.properties” file under resources
4. Configure extent.properties file