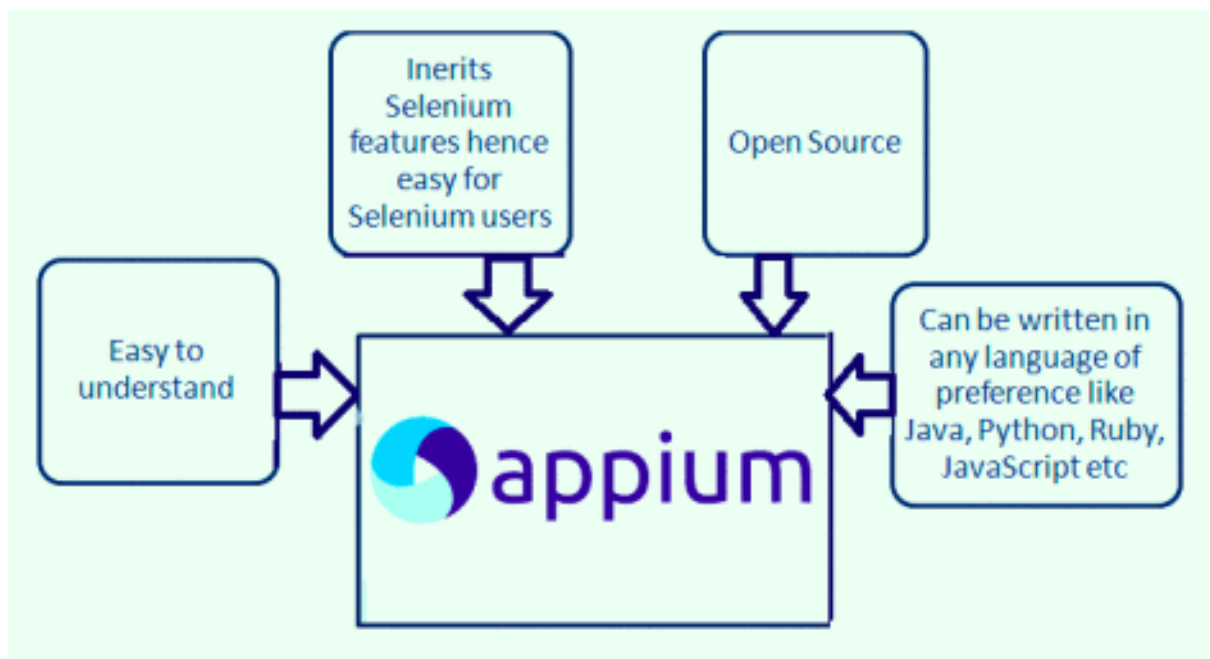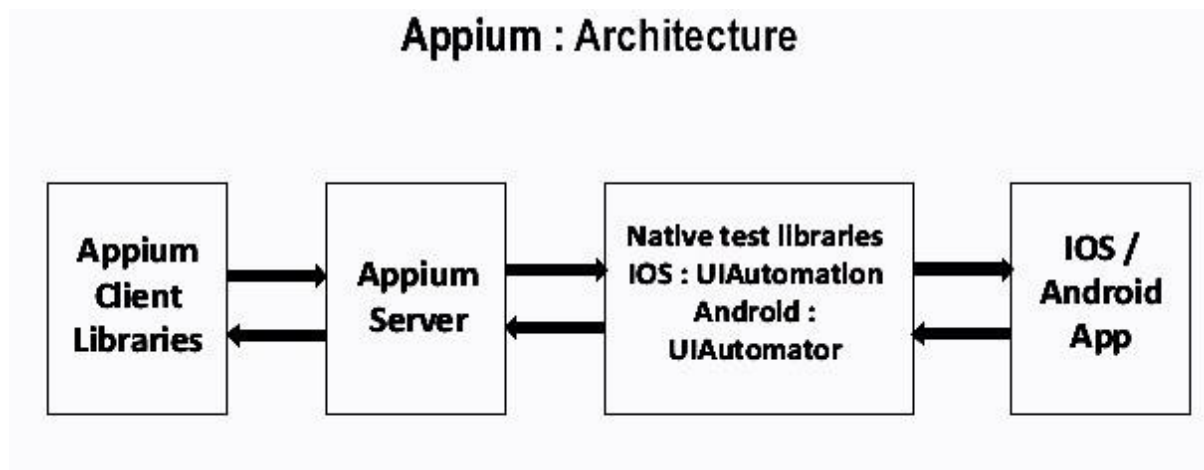# APPIUM+CUCUMBER FRAMEWORK

APPIUM:

Appium is an open source test automation framework which is used to automate all native, hybrid and mobile web apps. Appium is an HTTP server which was written in **node.js**, it's architecture is as same as **Selenium Webdriver Server**.
*Receiving requests from the client libraries
*Executes the commands on the target devices & emulators
*Responds with an HTTP response.

Appium will support only **Android** and **IOS** but not **Windows** platform.

APPIUM ARCHITECTURE:

When we execute our scripts, Desired Capabilities will send as Http request in JSON format to Appium server. Depends upon the Desired capabilities in the request, Appium server sends the command to IOS instruments which needs bootstrap.js file to automate IOS apps and for Android, it sends to UIAutomator which needs bootstrap Jar.
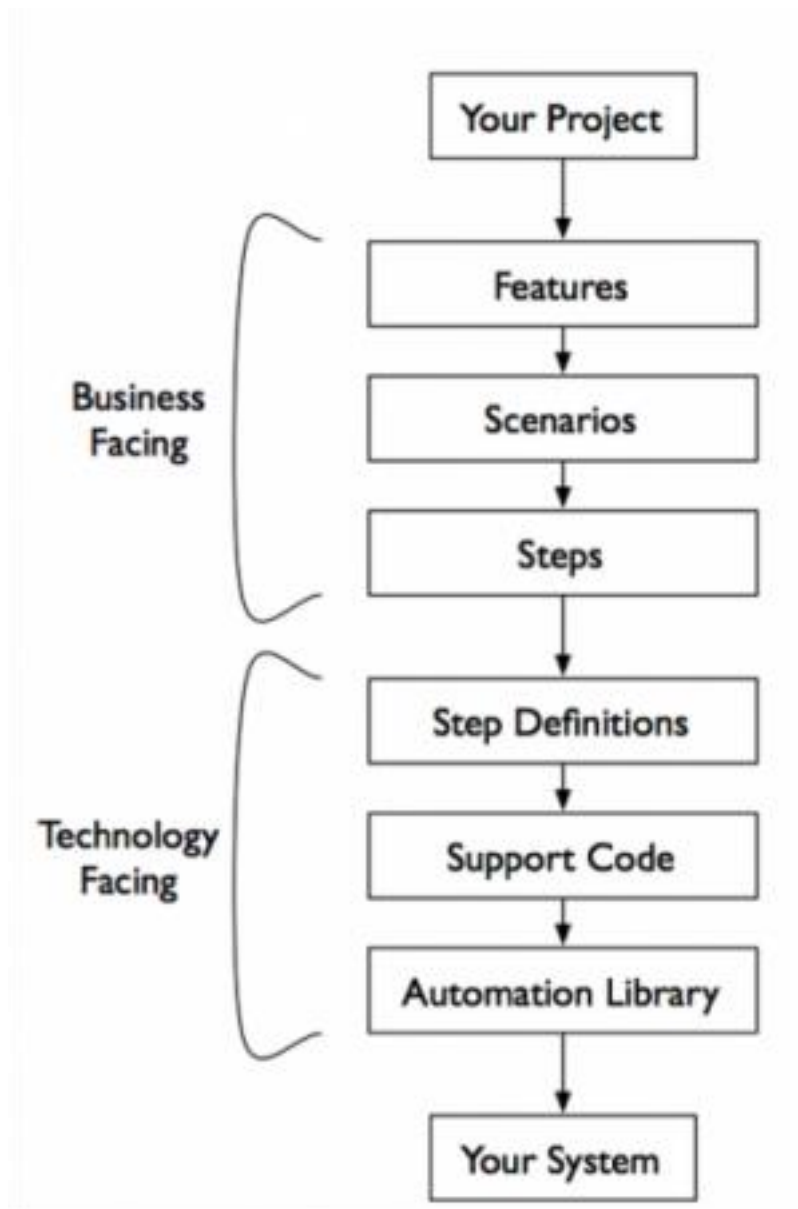
CUCUMBER:

A cucumber is a tool based on Behavior Driven Development (BDD) framework which is used to write acceptance tests for both the mobile and web application. It allows automation of functional validation in easily readable and understandable format (like plain English) to Business Analysts, Developers, Testers, etc.

APPIUM+CUCUMBER(eBay Android app automation):

Cucumber supports Many Languages like Perl, PHP, Python, Net etc. In this project I have used Java. Cucumber and Appium is a great combination and can help to automate testing of our apps. Here I have used
Appium+Cucumber+Page Object Model+TestNG

STRUCTURE OF CUCUMBER TESTS

In this project ,eBay app is implemented using Cucumber framework. All the test cases written in the gherkin language and step definition for the corresponding features is written in java .Log4j used for logging information. In Runner classes, defined all the cucumber options and it implemented using TestNG Class(testng.xml)