Installation

- a) NodeJS https://nodejs.org/en/download
- b) Appium https://appium.io/docs/en/latest/guickstart/install/
- c) Android Studio https://developer.android.com/studio
- d) SDK Manager (Comes with Android Studio), Reference Link https://appium.io/docs/en/latest/quickstart/uiauto2-driver/

Set Following Path Variables (Environment Variable)

- 1) ANDROID HOME
- 2) ANDROID_SDK_ROOT
- 3) JAVA HOME
- 4) PATH (platform-tools, adb)

Install UiAutomator2

1) appium driver install uiautomator2

Appium Inspector Download

1) https://github.com/appium/appium-inspector/releases

Run Appium with following command

appium

Appium Official Documentation

https://appium.io/docs/en/latest/

Add Java Client Dependency

https://github.com/appium/java-client

Command to check connected devices

adb devices

Appium Inspector Download Link

https://github.com/appium/appium-inspector/releases

Java Client Documentation

https://github.com/appium/java-client?tab=readme-ov-file

Appium Capabilities

https://appium.io/docs/en/2.0/guides/caps/

Set Environment Variable for Mac

- 1) Identify your shell by running echo \$SHELL in the Terminal.
 - a) If output is bin/zsh then you are into zsh profile
 - b) If output is bin/bash_profile then you are using bash_profile
- 2) Edit the appropriate profile file using a text editor like vim:
 - For bash: vim ~/.bash profile (or ~/.bashrc if the former doesn't exist)
 - For zsh: vim ~/.zshrc (or ~/.zprofile if the former doesn't exist)
 - Add a line similar to export VARIABLE_NAME=variable_value at the end of the file,
 replacing the placeholders with your desired variable and value.
 - Save and close the file esc & :wq
 - Load the updated changes

```
o source ~/.bash_profile
o source ~/.zshrc
```

• Open a new terminal window for the changes to take effect. You can verify the updated environment variable using echo \$VARIABLE NAME.

Capabilities Required to Start Appium Session

```
DesiredCapabilities capabilities = new DesiredCapabilities();
capabilities.setCapability("platformName", "Android");
capabilities.setCapability("deviceName", "RZ8N9250P5Z");
capabilities.setCapability("app", "Path To APK File");
capabilities.setCapability("automationName", "uiautomator2");
```

Transitive Dependency

https://github.com/appium/java-client/blob/master/docs/transitive-dependencies-management.md

How to Kill Process that is using port number 4723

- Windows
 - o Find Process ID
 - netstat -ano | findstr :4723

- Kill Process
 - taskkill /PID 6780 /F

C:\Users\khima>taskkill /PID 6780 /F SUCCESS: The process with PID 6780 has been terminated.

- Mac
- 1. Identify the Process ID (PID):

lsof -i :4723

2. Terminate the Process:

sudo kill <PID>

MAC Installation

1) Install Brew

Install it from the website - https://brew.sh

2) Install Node

Execute Command - brew install node

3) Validate Node & NPM

Execute Command - node -v and npm -v

4) Install Appium

Execute Command - npm install -g appium

5) Install Xcode

Install from App Store "XCode"

If it's not working then please install it from apple official website

https://developer.apple.com/documentation/xcode-release-notes/

- 6) Install Simulator
 - a) Right click on XCode Doc Icon or XCode menu

- b) Select **Settings**
- c) Go To **Platform** Tab
- d) Select Get option that is available for iOS 17

7) Start Simulator

- a) Open your Xcode project.
- b) Go to Xcode > Open Developer Tool > Simulator.