REQUIRED TO CHECK BEFORE WATCHING VIDEO!

What do I need for Appium installation on Windows?

For all Mobile Testing subjects we will be using Appium, and main documentation for this is
here: https://appium.io/docs/en/2.1/

1. At least JDK version 8 or a later version needs to be
installed https://www.oracle.com/java/technologies/downloads/

2. JAVA_HOME needs to be setup, and you can check here at this link:
https://confluence.atlassian.com/doc/setting-the-java_home-variable-in-windows-8895.html

3. Enable virtualization if needed (Some version of Windows laptops require virtualization to be
enabled) https://stackoverflow.com/questions/67319710/how-to-enable-vmx-in-the-haxm-
installationLinks to an external site. Also check this site : https://www.geeksforgeeks.org/how-
to-enable-virtualization-vt-x-in-windows-10-bios/

If you have installation issue with HAXM, link is here: https://github.com/intel/haxm/releases

4. Install NodeJS (latest LTS as of today) https://nodejs.org/en/Links to an external site.

5. Install Andoird Studio https://developer.android.com/studioLinks to an external site. (Simple
installation - Always Next - Do not import Settings (if it asks) - For Data Sharing Don't Send -
Install Type Standard - Finish-Choose SDK Manager)

6. Setup ANDROID_HOME https://stackoverflow.com/questions/26356359/error-android-
home-is-not-set-and-android-command-not-in-your-path-you-mustLinks to an external site.

7. Install appium-doctor, you need to open your Command Prompt / Powershell and type either
of following CMD (npm i appium-doctor -g) or (npm i --location=global appium-doctor)

8. Install Appium Server, you need to open your Command Prompt / Powershell and type either
of following CMD (npm i appium -g) or (npm i --location=global appium)

IMPORTANT: Install UiAutomator2 Driver

Run This Command:

"appium driver install uiautomator2"

9. Install Appium Inspector https://github.com/appium/appium-inspector/releases/tag/v2021.9.2Links to an external site.

10. Create Android Emulator (Pixel 3 Android 10)

11. Create a basic Maven project

12. Add dependencies and create basic test class:

```xml
<dependencies>
    <!-- https://mvnrepository.com/artifact/io.appium/java-client -->
    <dependency>
        <groupId>io.appium</groupId>
        <artifactId>java-client</artifactId>
        <version>7.6.0</version>
    </dependency>
    <!-- https://mvnrepository.com/artifact/org.junit.jupiter/junit-jupiter-api -->
    <dependency>
        <groupId>org.junit.jupiter</groupId>
        <artifactId>junit-jupiter-api</artifactId>
        <version>5.8.2</version>
        <scope>test</scope>
    </dependency>
</dependencies>
```

```java
import io.appium.java_client.AppiumDriver;
import io.appium.java_client.MobileElement;
import io.appium.java_client.android.AndroidDriver;
import io.appium.java_client.remote.MobileCapabilityType;
import org.junit.jupiter.api.Test;
import org.openqa.selenium.remote.DesiredCapabilities;

import java.net.MalformedURLException;
import java.net.URL;

public class FirstAppiumTest {
    AppiumDriver<MobileElement> driver;

    @Test
    public void test1() throws MalformedURLException, InterruptedException {
        DesiredCapabilities capabilities = new DesiredCapabilities();
        capabilities.setCapability("deviceName", "Pixel 3");
        capabilities.setCapability(MobileCapabilityType.PLATFORM_NAME, "Android");
        capabilities.setCapability(MobileCapabilityType.PLATFORM_VERSION, "10");
        capabilities.setCapability(MobileCapabilityType.AUTOMATION_NAME,
```

```java
            "UiAutomator2");
        capabilities.setCapability(MobileCapabilityType.APP, "https://cybertek-appium.s3.amazonaws.com/calculator.apk");

        URL url = new URL("http://localhost:4723/");

        driver = new AndroidDriver<MobileElement>(url, capabilities);
        Thread.sleep(3000);
        driver.closeApp();
    }
}
```