Appium Setup & Environment Configuration Documentation

1. Java Setup

1.1 Installation

- Downloaded **Java JDK** from the official Oracle / OpenJDK website.
- Installed JDK on the system.

1.2 Verification

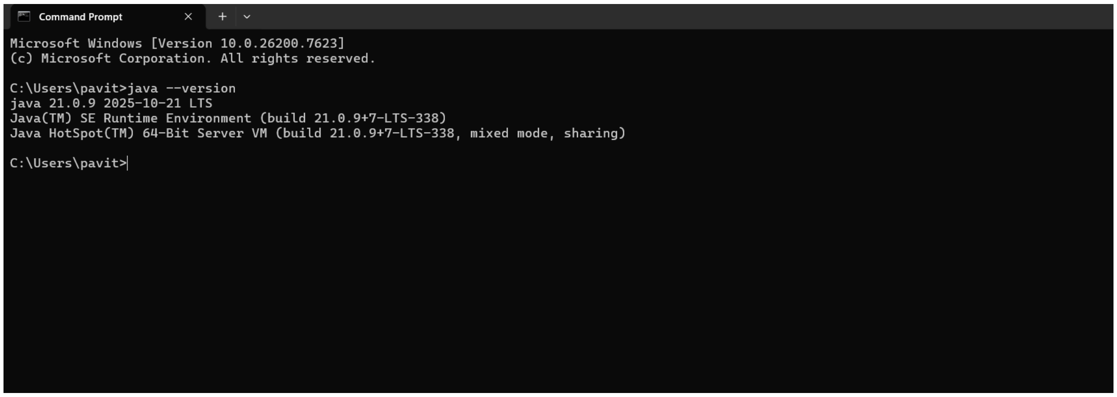
Verified Java installation using command:
java -version

-

1.3 Environment Variables

- Created **JAVA_HOME** variable pointing to JDK installation path.
- Added `%JAVA_HOME%\\bin` to the **Path** variable.

Purpose: Java is required for Android SDK, Appium, and test execution.



```
Microsoft Windows [Version 10.0.26200.7623]
(c) Microsoft Corporation. All rights reserved.

C:\Users\pavit>java --version
java 21.0.9 2025-10-21 LTS
Java(TM) SE Runtime Environment (build 21.0.9+7-LTS-338)
Java HotSpot(TM) 64-Bit Server VM (build 21.0.9+7-LTS-338, mixed mode, sharing)

C:\Users\pavit>
```

2. Eclipse IDE Setup

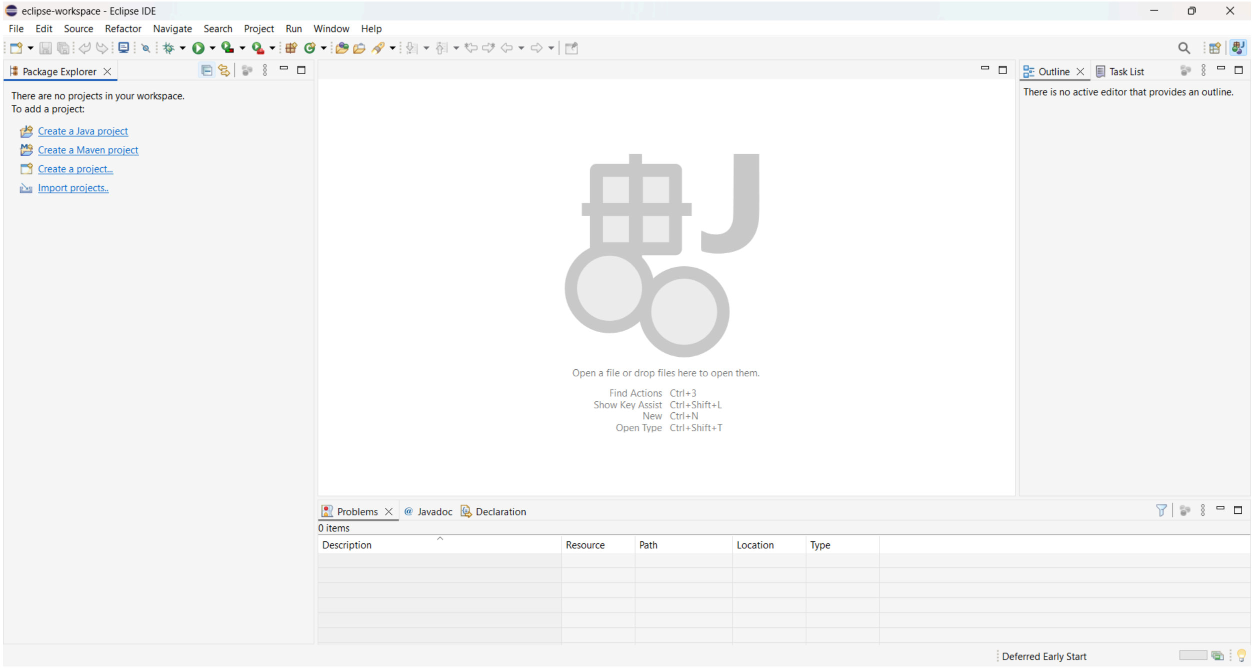
2.1 Installation

- Downloaded **Eclipse IDE for Java Developers**.
- Extracted and launched Eclipse.

2.2 Configuration

- Set workspace for Appium projects.
- Installed required plugins (if any).

Purpose: Eclipse is used to write and execute Appium automation scripts.



There are no projects in your workspace.
To add a project:

- Create a Java project
- Create a Maven project
- Create a project...
- Import projects...

There is no active editor that provides an outline.

Open a file or drop files here to open them.

```
  Find Actions  Ctrl+3
Show Key Assist  Ctrl+Shift+L
          New  Ctrl+N
    Open Type  Ctrl+Shift+T
```

0 items

Description	Resource	Path	Location	Type

Deferred Early Start

3. Node.js Setup

3.1 Installation

- Downloaded Node.js (LTS version).
- Installed Node.js successfully.

3.2 Verification

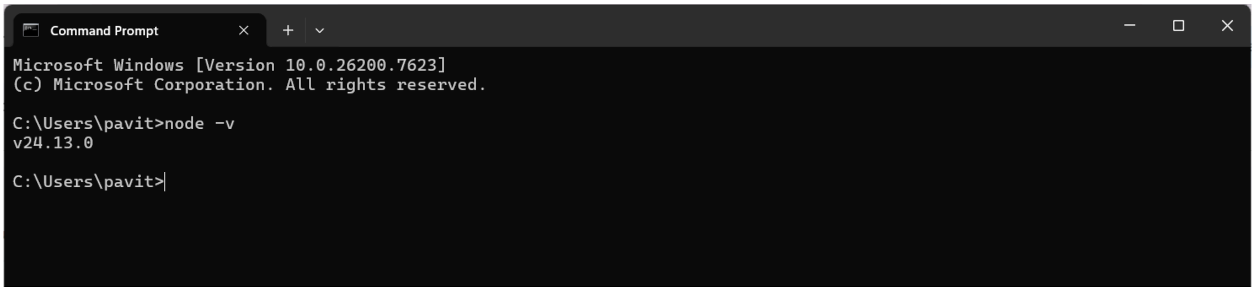
Verified installation using commands:
node -v
npm -v

-

3.3 Environment Variables

- Node.js path automatically added to system Path.

Purpose: Appium Server runs on Node.js.



```
Microsoft Windows [Version 10.0.26200.7623]
(c) Microsoft Corporation. All rights reserved.

C:\Users\pavit>node -v
v24.13.0

C:\Users\pavit>
```

---

4. Android Studio Setup

4.1 Installation

- Downloaded and installed **Android Studio**.

4.2 SDK Configuration

- Installed Android SDK
- Installed Platform Tools
- Installed Build Tools

4.3 Environment Variables

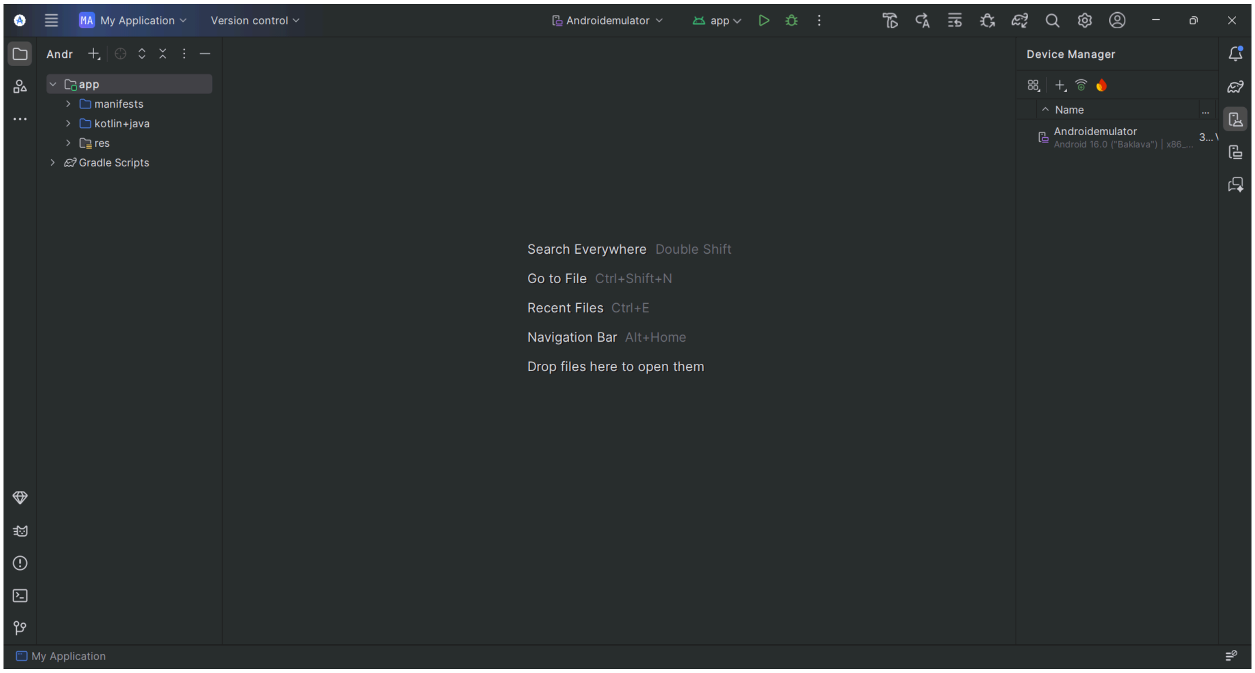
- Set **ANDROID_HOME** variable.
- Added below paths to system Path:
  - `%ANDROID_HOME%\\platform-tools`
  - `%ANDROID_HOME%\\tools`
  - `%ANDROID_HOME%\\tools\\bin`

4.4 Verification

Verified ADB using command:
adb version

-

Purpose: Android Studio provides SDK, Emulator, and ADB support.



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5. Appium GUI Server Setup

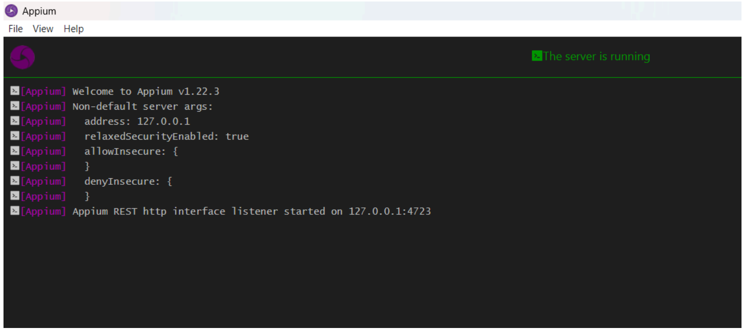
5.1 Installation

- Downloaded **Appium Desktop (GUI Server)**.
- Installed Appium Desktop successfully.

5.2 Configuration

- Started Appium Server using default host and port.
- Verified server status using logs.

Purpose: Appium Server is responsible for communicating between test scripts and devices.



```
[Appium] Welcome to Appium v1.22.3
[Appium] Non-default server args:
[Appium]   address: 127.0.0.1
[Appium]   relaxedSecurityEnabled: true
[Appium]   allowInsecure: {
[Appium]   }
[Appium]   denyInsecure: {
[Appium]   }
[Appium] Appium REST http interface listener started on 127.0.0.1:4723
```

6. Appium Inspector Setup

6.1 Installation

- Installed Appium Inspector.

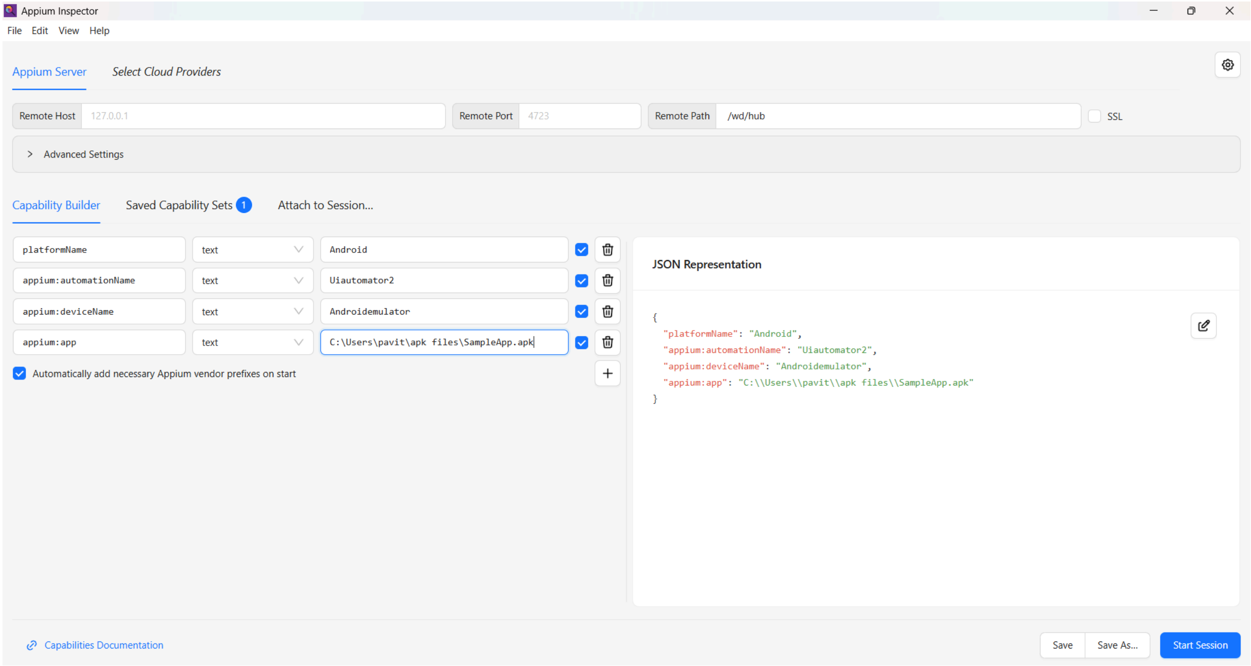
6.2 Configuration

- Configured Desired Capabilities (Platform Name, Device Name, App Package, App Activity, etc.).
- Connected Inspector to running Appium Server.

6.3 Usage

- Inspected mobile application UI elements.
- Generated XPath, ID, and Accessibility locators.

Purpose: Used for element inspection and locator identification.



Remote Host 127.0.0.1

Remote Port 4723

Remote Path /wd/hub

□ SSL

platformName	text	Android	☑
appium:automationName	text	Uiautomator2	☑
appium:deviceName	text	Androidemulator	☑
appium:app	text	C:\Users\pavit\apk files\SampleApp.apk	☑

☑ Automatically add necessary Appium vendor prefixes on start

```
{
  "platformName": "Android",
  "appium:automationName": "Uiautomator2",
  "appium:deviceName": "Androidemulator",
  "appium:app": "C:\\Users\\pavit\\apk files\\SampleApp.apk"
}
```