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Architecture of Appium

1. Appium Client Libraries: These are tools on your computer that let you write test scripts in different programming languages (like Java, JavaScript, Ruby, and Python).

2. JSON Wire Protocol: This is a way for your test scripts to communicate with the Appium Server. Think of it as a language they both understand.

3. Appium Server: This server receives the instructions from your test scripts and translates them into commands that the mobile device can understand. It acts like a middleman between your scripts and the mobile device.

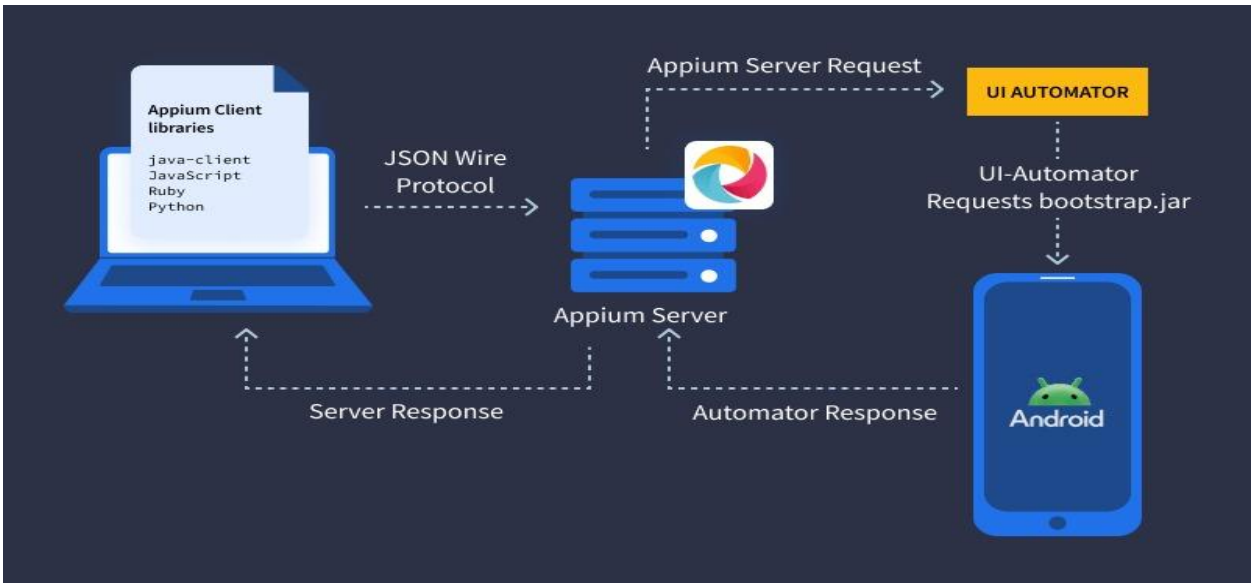
4. UI Automator: This is a tool that runs on the Android device. It receives commands from the Appium Server and performs the actions on the device. It can interact with the app's user interface to simulate things like clicking buttons or entering text.

5. bootstrap.jar: This is a helper file that the UI Automator uses to perform its tasks. It contains the necessary code to interact with the Android system.

6. Server Request and Response: This is the back-and-forth communication between your computer (where the test scripts run) and the Appium Server. The request is your test command going to the server, and the response is the result coming back to your computer.

In summary:

- You write test scripts on your computer.
- The scripts send commands using a special language (JSON Wire Protocol) to the Appium Server.
- The Appium Server translates these commands and sends them to the Android device.
- The device performs the actions and sends back the results to the Appium Server.
- The Appium Server then sends these results back to your computer.



Thank You