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How to automate flutter app using appium. How to automate android app using appium in mac. How to automate native app using appium. How to automate hybrid app using appium.

Is native app automation missing from your tool belt? Problem solved. Watch the Videos Appium is built on the idea that testing native apps shouldn't require including an SDK or recompiling your app. And that you should be able to use your preferred test practices, frameworks, and tools. Appium is an open source project and has made design and tool decisions to encourage a vibrant contributing community. Appium aims to automate any mobile app from any language and any test framework, with full access to back-end APIs and DBs from test code. Write tests with your favorite dev tools using all the above programming languages, and probably more (with the Selenium WebDriver API and language-specific client libraries). Mac OSX XCode w/ Command Line Tools Mac OSX or Windows or Linux Android SDK  $\geq 16$  > brew install node # get node.js > npm install -g appium # get appium > npm install wd # get appium client > appium & # start appium > node your-appium-test.js See the Appium example tests. Appium Tutorial 2021 is ready for all testers! I will use Appium Desktop and Android Studio to create a sample mobile test automation project for you. After that, we will continue with the Advance Appium Tutorial series. First, we need to do a proper Appium Installation. Alright, Let's start! Appium Tutorial Prerequisites: JAVA and Maven Installation Download JAVA JDK first. Here is the Link: JAVA JDK 11 Installation steps and configuration settings have described in this article at step-4 and step-5. For MACOS users please visit the below article for all installation needs. Windows users will go on with the below installation steps. ) Android Studio Installation Let's go to Android Studio Download and install Android Studio. After that, apply the following steps. Click the "Next" icons and finally click the "Finish". Click to download Android Studio based on your operating system Windows, macOS, Chrome OS, or Linux. We are going on with Windows. After download the Android Studio, installation is straightforward. Click the next button. Select all options and click the next button. Select your directory or keep the default and click next. I kept it as default. ;) and click the install button to start the installation process. If it is your first time installing Android Studio then just select the "Do not import settings" option and click the OK button. If you are updating it, you can import your previous settings. Click the next button and continue. I installed the Android Studio with standard settings and configurations as shown below screenshot. Select your UI Theme. I prefer Darcula because it is better for the eyes but you can go with the white classical theme if you want. Click the "Finish" button and install the required tools. Then, just wait until all libraries be downloaded and the installation to be finished. After all these steps, click the finish button. After clicking the "Finish" button. Go to "Configure" > "SDK Manager" to get SDK information. It is required for Android SDK path settings. Select your device's or emulator's Android API level (Version). We will go with Android 11 API, please install that one. When took the below screenshot the latest version was 9.0 but for this example, we will go with Android 11. I am not using windows anymore thus I could not update the screenshot but I wanted to mention it to guide you correctly. And select the required tools as shown below and click "OK. Click OK one more time, please. ;) Click the Finish button and continue. After the installation of the required tools, go to the SDK Manager page and copy the SDK path as shown below. We will use it. ;) Download RapidEE tool and install it and open it as administrator. And then add ANDROID\_HOME variable and its path should be Android SDK's path. Also, check your JAVA\_HOME variable. JAVA\_HOME should equal to JAVA SDK's path. Then, you need to add required Android tools and JAVA JRE paths to your system path as shown below. After that, check your settings and installations. Open a command prompt window and type "sdkmanager -l" command as shown below, and type "uiautomatorviewer" to check uiautomatorviewer is working properly. Then, create a sample project in Android Studio and then click the link as shown below to install missing libraries. After installation, click the Finish button. After installing missing libraries you will see the device and little sweet android icon. ;) When you click this icon, you will open the android virtual device manager. Let's create a virtual device. I will also explain how to do mobile automation with a real device too. Don't worry. ;) Click to "+ Create a Virtual Device" button. Then, select a virtual device in the device list. To run ARM-based apk files on X86 platforms (windows or mac), please refer to this article: After coming back to the above article and after installing your device, you will see the below result. Until now, we installed JAVA and Android-related libraries and did their settings and configurations. Now, it is time to download Appium. Appium Desktop Installation and Configurations Go to and click the "Appium-Desktop for OSX, Windows, and Linux" link. On the below page, click "appium-desktop-Setup-1.20.2.exe" file. (I am writing this article the latest release is 1.20.2, you can install the latest version when you are installing appium.) When the installation file downloaded, click run and start to install appium desktop. When installation finished, double-click the appium icon and open the appium server as shown below. Let's click the "Advanced" tab and change the Server Address to "127.0.0.1" and click Allow Session Override for override session when there will be problems and click "Start Server". If you will use a real device and then use "0.0.0.0" for "Server Adress". Set Android and JAVA home in Appium Desktop. Give the required permission to Appium Server. You will see the server up and running. Android Virtual Device and Pre-Test Settings Before starting the tests you can directly install your apk or xapk files if you have. In our example, first, we will install apk pure app. After please open the apk pure app and search for any app you want to install. In this example, I will go with the "İşin Olsun" application. My previous company's app. ;) After clicking the install button, the app will be installed. After these steps, when you click the app icon, you will see that it is opening as expected. ;) In order to find the splash activity, I installed the APK Info app via APK Pure application. For this, just open the APK pure app, search the "Apk Info" and install the app. Then, I opened the APK Info app and find our application "İşin Olsun" and click it. Then I saw all the information about our app. When I looked at the Activities section, I saw that our application is starting with "com.isinolsun.app.activities.SplashActivity". I will use this info in the automation code's desired capabilities section. Also, I will use app package info which is "com.isinolsun.com" Then, open a command prompt and write "adb devices" command to see connected devices and get the device ID as shown below. Go to your AVD's setting tab and check your AVD's Android Version as shown below. We will use these settings in our test project. Then, open IntelliJ IDE and create a new project as shown below. First, select Maven and click Next button. Then, write your project's GroupId and ArtifactId. You can write the same as shown below. It does not affect anything, just naming. Then, give a name to your project. Then, click "Enable Auto-Import" in the right bottom corner. Go to mvnrepository.com website and get all frameworks' latest dependency information. We will use TestNG, Appium, Selenium. Our POM.xml will look like as below. You can see appium's, selenium's, and TestNG's dependencies. I used JAVA11 JDK in this example.

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