**System specifications:**

CPU: Ryzen 7 5800H

RAM size: 16gb

Windows version: 11

**Installation instructions**:

1.Download the LTS version of node.js

2.Download an install Android studio and when installing make sure all the boxes have the following checked: Android SDK,Android SDK Platform,Android Virtual Device

And If you are not already using Hyper-V: Performance (Intel ® HAXM) ([See here for AMD or Hyper-V](https://android-developers.googleblog.com/2018/07/android-emulator-amd-processor-hyper-v.html))

3. Configure the ANDROID\_HOME environment variable by going to settings then search Change my environment variables

4. When there new to create a new ANDRIOD\_HOME user variable

5. Add the path to your Android SDK in the variable value box

6. In the Same area where you added the new ANDROID\_HOME variable select the path variable in the lists of variables, click edit and click browse and navigate to where the Android SDK platform-tools was created.

**Project creation**:

1.In you're installed Android studio run it and click the more actions button in the middle of the screen and when the drop down menu is displayed press the virtual device button.

2. Click create device and choose one of the choices of displayed devices you wish to work on.ex google pixel 7.

3 download the system image by clicking on the download button next to the system image letter. Example, R

3. After the download is complete select the image you selected and click next.

4. On the next screen leave everything as is and if you are using a phone select portrait mode and click finish.

5. Finally click the play button on the virtual device you would like to run, to start the device, it may show a black-screen for the phone for the first couple of minutes, as well as a windows firewall prompt from adb, just click accept.

6. Your android device emulator should be up and running.

**Running the project**:

1.Open android studio

2. When open click the “android” folder in the project you wish to create

3. Click on the build button on the top part of the screen after the project has loaded into android studio

4. After its finished building run your project

5. The emulator should display some errors, to get rid of these go to youre common line and in the directory of the project folder type this in. “ npm run start”

6. After it's done loading that section click ‘r’ to reload the project as displayed in the command line.

7. The emulator should display your project now!

**Troubleshooting**:

1.If you are trying to run your project in the command line and are getting the “ cannot find variants” error, go to where you edit your environments variables and system variables

2. After you have navigated to the area, check both of the path variables in the system and users variables and remove any “JDK” files in there to resolve this error.

**Resources**

Here are some additional resources that you can go over if you want materials to reference over.

[React Native · Learn once, write anywhere](https://reactnative.dev/)

[Android Developers Blog (googleblog.com)](https://android-developers.googleblog.com/)

[Newest 'jsx' Questions - Stack Overflow](https://stackoverflow.com/questions/tagged/jsx)