

Spinning Up React Native App

Edward Magtoto

System Specifications Used

CPU: 12th Gen Intel(R) Core(TM) i5-12400F

Ram Size: 32 GB

Windows Version: 10.0.19045

Creating Environment

- The first step is to download Node js and during the installation setup all the steps leading up to the installation is to be left as default.
- After Node js is installed, the next step will be another installation for Android Studio leaving all options from its setup as default.
- After the installation we will have to make sure that the android environment is properly setup, requiring us to navigate through our settings (windows settings) and search for “Environment Variables” in which you need to edit
- For the Environment Variables we are going to create a new one with the name `ANDROID_HOME` and the value will be where the Android SDK is located
- Next we will edit the path variable, and add the platform tools which are found under the `sdk` folder of the previous step

React App

- To create a react app we will need to open up our command prompt and navigate towards a folder we would like to store the project.
- When creating the project we will input this into the command line
`“npx react-native@latest init IncredibleTodoListApp”`
- To open the project we will use Visual Studio Code to open the folder that you saved the project to in the previous steps

Device Setup

- For us to use any of our apps we will need a device emulator, which can be solved with Android Studio
- In Android Studio We will need to navigate through “More Actions” and click on “Virtual Device Manager” from there we can create new virtual devices. The type of phone, system image, and phone orientation can be chosen.
- From the Device Manager you can run the emulation where you can have access to what the phone is capable of

Running the Project

- **Android Studio**
 - One way is through Android Studio where you can open it through where the project was stored and by clicking the android file
 - A new window for the app will open, and to run it you will want to build it from the top navigation bar with build > make project
 - After its done building you want to run it form the Run button beside the build button at the top, it will then run the project in the emulator
 - An error may occur where it is unable to load the script, what you need to do is open the command prompt, navigate to the project and run “npx react-native start” and reload the app
- **Command Line**
 - To get it to run from the command line make sure your command prompt is in the folder of the project and run “npm run start” and press “a” to run the project

Resources

<https://reactnative.dev/docs/environment-setup?guide=native>).