**Hardware Needed:**

To be able to use Node.js and NPM you must have at least these hardware requirements:

* RAM 4GB
* CPU Intel Core i3TM i3 HQ CPU @2.50 GHz
* ROM 256 GB

**Setting Up React Native Step-By-Step Process:**

**Step 1:**

Install Node.js from - <https://nodejs.org/en>

Choose the recommended option to download from, then follow along installing Node.js

**Step 2:**

Once Node.js is installed, open up the application to make sure the program is working. If the program is working properly, continue to step 3 otherwise, reinstall the program.

**Step 3:**

Next, click on the Windows Search Bar and type CMD. Click on the terminal and open it up.

**Step 4:**

Next in the terminal, type these two commands in to make sure you have Node.js and NPM installed on your computer:

node -v

npm -v

When these commands are initiated, the terminal should bring back a version of each of the programs. If it doesn’t reinstall Node.JS.

**Step 5:**

While within the terminal, type this command next to install Expo Go:

npm install expo

This command will install Expo Go onto your computer. To check if the command worked, type:

expo -v

If a version comes up, you successfully installed Expo Go.

**Step 6:**

To make sure these settings work and all features have a chance to full install, restart your computer

**Setting Up Your First Application Step-By-Step Process:**

**Step 1:**

Type in your Windows Search Bar CMD to open up your terminal.

**Step 2:**

Next, type this command in to create your first app:

npx create-expo-app [Name without the brackets]

\*Note: There can be no spaces within the name.

This will create your first application and will be stored at C:\users\[User Name]\[App Name]\

**Step 3:**

Next type these two commands to start up the server for your application:

cd [App Name]

npx expo start

\*Note that this will start up the server on your local computer at the wifi you are currently connected to.

A bar code will have shown up for you to connect to through your phone, as well as multiple commands you can use.

**Connect To Your Application Step-By-Step Process:**

There are many ways to connect to your application and we will go through all of them.

**Connect via Android Phone or IOS Phone:**

**Step 1:**

Go to the PlayStore or AppStore and search up Expo Go and install this application.

Once installed continue to Step 2.

**Step 2:**

Make sure your phone is on the same wifi connection as your computer and open the app.

**Step 3:**

If you have followed the last Step-By-Step Process, your application will already be started. If not, follow “Setting Up Your First Application Step-By-Step Process” and then continue.

Once the Expo Go App is opened, you can either enter the URL given in your terminal manually, or you can scan the QR code. Whichever one you choose will still connect you to the App Server.

**Step 4:**

You can now open Visual Studio or any other IDE chosen and open the app files at C:\users\[User Name]\[App Name]\. To edit the app itself, click on App.js and begin editing the program. All changes done to this file will automatically be saved and updated instantaneously on your phone.

**Connect via Android Studio:**

**Step 1:**

Download and Install Android Studio from - <https://developer.android.com/studio>

**Step 2:**

Next open Android Studio, go to Settings > Languages & Frameworks > Android SDK. From here select the latest Android Version in the API Level.

**Step 3:**

Next make sure you have at least one of the Android SDK Build-Tools and Android Emulator installed.

**Step 4:**

Next copy the path to the Android SDK Location.

**Step 5:**

Click apply and OK to install the Android SDK and build tools.

**Step 6:**

Now, on the Main Screen of Android Studio, click more actions under Projects, and then click on Virtual Device Manager.

Now click Create Device.

**Step 7:**

Under Select Hardware, choose the hardware you wish to emulate and click next. Now select the OS version you wish to use under Recommended Tab.

**Step 8:**

Now open up the PlayStore and install Expo Go, once installed, open the app and enter the code manually to connect to your application.

**Resources:**

For common troubleshooting issues go to this website - <https://reactnative.dev/docs/troubleshooting>

For any other information to learn React Native and Expo for use this website for continued learning - <https://reactnative.dev/>