**System Requirements:**

CPU- Intel i7-12700h

Ram- 16.0 GB

Windows Version- Windows 11

**Installation Instructions:**

1. Download and install node.js LTS

Open terminal and type “node –-version” and “npm --version” to confirm the installation of node.js

1. Set up React Native CLI

Run command prompt as administrator and type “choc install -y openjdk8”and type “y”

1. Download and Install Android Studio

Make sure “Android SDK” “Android SDK Platform” “Android Virtual Device” are checked and install the application

Open the Android Studio, click “More Options”, click “SDK Manager”, press “Show Package Details” and make sure “Android 14 SDK Platform” and “Intel x86 Atom\_64 System Image” is selected.

Select SDK Tools and check “34.0.0” in “Android SDK Build-Tools”, click apply and let it install all the dependencies.[1]

**Configuration Steps:**

Open control panel, go to User Accounts, go to User Accounts again, click new.

Set the name as “ANDROID\_HOME” and path as location of bin folder of Android Studio

Open Environment Variables again, click Path and click new, paste to location of platform-tools in it.

**Project Creation:**

Create a folder to save all your projects for example “**cprg303**”

Open Terminal and type the following:[2]

**cd c:\cprg303** (Change directory to cprg303)

**npx @react-native-community/cli@latest init [ProjectName]** (this will create the react native app of the project)

**Running the Project:**

**cd [ProjectName]** (change directory to project app)

**npm start** (This will start the react app)

Open the android studio and click “Virtual Device Manager” and run an android virtual machine

Open a new terminal window and type: **npm run android** (Starts the react app in the android virtual machine)

Edit “**App.tsx**” in text editor to make any changes to the app and save the file.

**Troubleshooting:**

Make sure to install the latest version of gradle and openjdk.[3]

Follow all the instructions carefully.

**Resources:**

[1] “Set Up Your Environment · React Native,” *Reactnative.dev*, May 15, 2024. <https://reactnative.dev/docs/set-up-your-environment> (accessed Sep. 14, 2024).

[2] “Get Started Without a Framework · React Native,” *Reactnative.dev*, Aug. 15, 2024. <https://reactnative.dev/docs/getting-started-without-a-framework> (accessed Sep. 14, 2024).

[3] facebook, “[0.75.x] Failing to build on Windows - Error resolving plugin [id: ‘com.facebook.react.settings’] - java.io.UncheckedIOException: Could not move temporary workspace · Issue #46210 · facebook/react-native,” *GitHub*, Aug. 20, 2024. <https://github.com/facebook/react-native/issues/46210> (accessed Sep. 14, 2024).