# **Lab Assignment 1: Spinning Up React Native App**

## **System Requirements**

* CPU (Processor): 11th Gen Intel® Core™ i7-1165G7 @ 2.80GHz 2.80 GHz
* RAM Size: 16.0 GB (15.7 GB usable)
* Windows Version: Microsoft Windows 11 Home (v22H2)

## **Installation Instructions**

1. Install **node.js** by visiting <https://nodejs.org/en>. I have downloaded version 20.10.0 LTS (which is recommended for most users).
2. Run the .msi file after downloading and follow the instructions to install node.js on your system.
3. Open command prompt (windows terminal) to check the node and npm versions:

* Type **node -v** to know the version of node.js.
* Type **npm -v** to know the version of node package manager.

For me, the node version is **v20.10.0** and npm version is **10.2.3**.

1. In command prompt, type **npm install expo-cli –global** to install Expo CLI (Command Line Interface) globally on your system [1].
2. Install **Expo Go** application on your iOS or Android device to run the application once created.

## **Configuration Steps**

1. Using the address bar in File Explorer, copy the exact path of the folder where you want to create the expo go app.
2. Open command prompt (windows terminal) and type **cd** and paste the path of the folder you just copied (and hit Enter key) to change the default root directory to the path of the folder.

For me, the command would be **cd C:\cprg303**.

## **Project Creation**

1. Open command prompt (windows terminal) and type the following command to create an expo go project: **npx create-expo-app IncredibleTodoListApp** [2].
2. After the installation is completed and all packages have been downloaded, type **cd IncredibleTodoListApp** to change the directory to the project we just created.

At this stage, the file path for me becomes **C:\cprg303\IncredibleTodoListApp**.

1. Once you have changed and got inside the project directory, type **code .** to open VS Code in the exact same folder. This has no use for creation of the project but will help later while coding for the application.

## **Running The Project**

1. Open command prompt (windows terminal) inside the project directory (C:\cprg303\IncredibleTodoListApp in my case) and type the following command to run the project: **npm start** [3].
2. Once the server starts, you will see a QR Code in the command prompt. Scan that QR code from the camera of your iOS device, or from the Expo Go application from your Android device to run the application on your mobile.
3. Once loaded, you will see the contents of the **App.js** file on the mobile screen (the default content is a white background with text that says **Open up App.js to start working on your app!**).
4. Your Expo Go app is up and running!

## **Troubleshooting**

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| --- | --- |
| [1] | If the current command doesn’t work or generates an error, use the alternate command **npm install –global expo-cli**. |
| [2] | If the current command doesn’t work or generates an error, use the alternate command **npx create-expo-app@latest IncredibleTodoListApp**. |
| [3] | If the current command doesn’t work or generates an error, use the alternate command **npx expo start**. |

## **Resources**

1. “Setting up the development environment” React Official Documentation for installing and building your first React Native app. Available: <https://reactnative.dev/docs/environment-setup?guide=native>).
2. “Environment Setup.docx” document shared by the instructor in MS Teams.