**Lab 1 – Spinning Up React Native App**

**System Requirements:**

1. CPU – 12th Gen Intel(R) Core(TM) i5-12500H 2.50 GHz
2. RAM size – 16 GB (15.6 GB usable)
3. Windows – Windows 11 Home Single Language

**Installation:**

1. Install node.js from <https://nodejs.org/en>. (I have version 20.10.0 LTS).
2. Run the .msi file after downloading and install node.js on your computer.
3. Using the command prompt, we can check the version of node and node package manager (npm):
   1. node -v = get version of node (20.10.0 on my system)
   2. npm -v = get version of node package manager (10.2.3 on my system)
4. Type “npm install expo-cli –global” to install Expo CLI globally on your system. If this command doesn’t work, we can use the command “npm install –global expo-cli” instead.
5. Copy the path of the folder where you wish to create the project and change the directory in command prompt to that folder. Use the keyword “cd” followed by the filepath to change the directory. My filepath is “C:\cprg303” so the command would be “cd C:\cprg303”.
6. After we change the directly, we create the expo go app by using the command “npx create-expo-app IncredibleToDoList”. Alternatively, we can use the command “npx create-expo-app@latest IncredibleToDoList” (depends upon the version of node we are using).
7. When the project gets created, we get into the project directory using the command “cd IncredibleToDoList”.
8. From here, we can start the application by typing “npm install” or “npx expo start” (again, depending upon the node version).
9. We need to download “Expo Go” application on our android /iOS device to watch the real time output on our device. When we run the project, we see a barcode which we must scan from the Expo Go app (android) or camera (iOS) to see the output on the mobile.
10. We now have a fully functional app which we can edit using code editors.

**Troubleshooting:**

1. Make sure we are in the right directory when we create/run the project, otherwise it will result in errors.
2. Try to connect the mobile device and laptop on the same LAN to avoid errors.

**Resources:**

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