Lab Assignment 1: Spinning Up React Native App

**System Requirements:**

Processor: Intel(R) Core(TM) i5-8350U CPU @ 1.70GHz 1.90 GHz

Installed RAM: 8.00 GB (7.85 GB usable)

Edition: Windows 11 Pro

Version: 22H2

**Installation Instructions / Configuration steps / Project Creation / Running the project:**

Setting up a Native React Environment and creating a new project:

1. Download and install NodeJS <https://nodejs.org/en>
2. To check if it is installed properly, open command prompt and type the codes: node -v (press enter then current version should appear) and npm -v (press enter then current version should appear).
3. Still in the command prompt, type: npm install expo-cli –global
4. Create a CPRG303 folder on your C drive then change the directory of your command prompt by typing: cd C:\\CPRG303
5. After changing the directory, type in npx-create-expo-app Incredible-Todo-List-App to create a new folder.
6. When the new folder is created, go to the directory of the newly created folder by typing cd Incredible-Todo-List-App
7. To start a development server, type npm expo start. This should show a QR code which you need to scan using your mobile device.

Setting up Android Studio and running ExpoGo on virtual device:

1. Download and install Android Studio <https://developer.android.com/studio>
2. When installation is complete, Android Studio will automatically run, in the main page, click on “More Actions” and select "Virtual Device Manager”.
3. On the top left of Android Studio, click the “+” button and select "Create Device”.
4. On the search bar type in Nexus 6P, select it and press next.
5. In the system image screen, select Pie in the recommended tab and download it. Hit next then finish, the virtual device will be running.
6. Type a in the command prompt where you ran npm expo start, this will install ExpoGo on your virtual device.
7. After successful installation, ExpoGo should run on your virtual device.

VS Code Extensions:

Open Visual Studio Code, click on extensions on the left side, search and install the following:

* React Native Tools
* React-Native/React/Redux snippet
* Prettier
* Material Icon theme

**Troubleshooting:**

* Make sure that you are using a stable network connection.
* For common issues please refer to React Native Troubleshooting on this link: <https://reactnative.dev/docs/troubleshooting>
* Use Google or ChatGPT and type in the error messages that you encounter.

**Resources:**

1. React Native Documentations:
   * <https://reactnative.dev/docs/getting-started>
   * <https://reactnative.dev/docs/environment-setup>
2. GitHub: <https://github.com/react-native-community/cli>
3. StackOverflow: <https://stackoverflow.com/questions/tagged/react-native>