Lab 1

1. System Requirements
   1. CPU - Intel core I7 11800H
   2. Ram – 16BGytes
   3. OS – Windows 10 Home 64-bit
2. Installation instructions
   1. Download and install Node.js first using the default settings and selections.
   2. Download and install android studio (make sure you have enough space)
      1. When running the Android studio setup wizard, use the standard install type.
      2. Choose theme (dark,light)
      3. During component setup, make sure these options are selected:
         1. Android SDK
         2. Android SDK Platform
         3. Android Virtual Device
      4. Accept all license agreements
3. Configure setup
   1. In android studio, under more options, click on the SDK manager and navigate to the languages & frameworks tab.
      1. Ensure you have these options selected.
         1. Android API
         2. Android SDK build Tools
         3. Android Emulator
         4. Intel Accelerator
         5. Android SDK Platform
   2. Add appropriate environment variables
      1. ANDROID\_HOME
         1. Open windows control panel
         2. Click user accounts, then user accounts again
         3. Click Change my environment variables
         4. Click New…
            1. Variable Name: = ANDROID-HOME
            2. Variable Value: = “SDK folder from install path”
            3. Click ok
         5. In the Environment Variables window, select the “Path” variable and click Edit…
            1. Click Browse
            2. Select the install path down to the SDK/platform-tools folder
            3. Click ok
            4. Click ok again
4. Project creation
   1. Create a folder you would like to store your projects in.
      1. Navigate to the folder in the CMD line
      2. In the CMD line, type “**npx react-native@latest init”** followed by the name of your project.
      3. Type y and hit enter to proceed.
         1. Allow the files to download and install
         2. Note: if npm is out of date, it will give you a notice.
            1. In CMD line, type **I -g npm** and it will download and install the latest update
   2. Open visual studio code
      1. Click File…open folder
      2. Open the folder ta was created with your project name in the directory you selected in CMD line
   3. Change language from typescript to javascript.
      1. Select App.tsx and change name to App.jsx
         1. This file will now have a bunch of red-lines, go through and delete the redlines, and your project will be setup.
5. Running the project
   1. in android studio, click on **OPEN** and select the **android** folder inside the folder that was created when you built your project through the CMD line.
      1. This may take a while to download and install.
   2. Click run on the toolbar, and Run App
   3. Under device manager, you may need to stop the emulator and restart it if the device emulator does not show up.
   4. When you get an error on the device emulator screen, go to your command line, navigate to your app folder, and type **npm run start**
      1. Select r to reload the app, allowing it to compile and install
   5. Your app should now be running on the emulator.
6. Troubleshooting
   1. I had no troubleshooting
7. Resources