CPRG303 - Lab 1

1. System requirements: Document specifications of the system being used for React Native development. This includes the CPU, RAM size, and Windows version.
    a. CPU: AMD Ryzen 9 5900X, RAM: 64GBs Windows Version: 10
2. Installation instructions: Include step-by-step instructions for installing the necessary tools and dependencies required for the framework, such as Node.js, and the React Native CLI.
    a. Navigate to Node.js website and download the latest Node Executable
    b. Open Command Prompt
    c. Navigate to the root folder (cd ../..)
    d. Create a new directory with a name of your choosing (mkdir **Name**)
    e. Navigate to that directory (cd **Name**)
    f. Run the command **npm install -g create-react-native-app**
3. Configuration steps: Detail any necessary configuration steps required to set up the framework, such as setting environment variables or configuring project settings.
    a. None at this time
4. Project creation: Outline the steps involved in creating a new project using the framework, including any necessary setup or configuration.
    a. In the same folder where you ran step f in item 2 run the command **npx create-expo-app@latest**
    b. Follow the Prompts and name your application
    c. You now have successfully created an expo app using react CLI and Node JS
    d. If using visual studio code you can move to the directory (cd **appName**)
    e. Enter code . to open the folder in the IDE
    f. Once in the IDE open a command line terminal
    g. Enter **npx expo start** to start a development server.
5. Running the project: Detail how to run the project in an Android Device Simulator.
    a. Download an android sdk from the android website
    b. Once downloaded follow the prompts for installation
    c. Once installed provide your IDE with the location of the SDK
    d. In your command line where you ran step g from part 4 enter a to open an android emulator
6. Troubleshooting: Include information on how to troubleshoot common issues that may arise during setup or development, such as debugging and error messages. This may need to be updated in the future.
    a. If the expo will not start when you enter the command npx expo start insure you are in the correct folder and not using powershell command prompt but instead cmd
    b. If any packages are missing use **npm i** to fetch and install
7. Resources: Provide links to additional resources and documentation that can be used for reference and further learning, such as official documentation, tutorials, and Stack Overflow answers.
    a. https://nodejs.org/en

b. https://reactnative.dev/docs/environment-setup
c. https://docs.expo.dev/get-started/start-developing/
d. https://developer.android.com/tools
e. https://www.tutorialspoint.com/react_native/react_native_environment_setup.htm