Mobile Applications for Sensing and Control (EEP 523)

Homework Assignment 1

Objective:

The goal of this assignment is to get familiar with React Native and to practice setting up a development environment, creating a "Hello World" app, and exploring the basic components, props, and states in React Native.

Getting Started:

1. Set up a development environment by installing React Native, Android Studio, and the necessary tools and plugins.
   Note: Follow the instructions for React Native CLI QuickStart, under which you can select your Development OS and Target OS. Avoid Expo Go QuickStart.
2. Create a "Hello World" app in React Native by following these steps:
   - Create a new React Native project using the React Native CLI.
   - Write the code to display "Hello World" on the screen of your app.
   - Run the app on an emulator or physical device to make sure it works properly.

Main Goal:

3. Explore the basic components, props, and state in React Native by creating a simple app that displays a list of items. The app should have the following features:
   - A button to add new items to the list.
   - A button to remove items from the list.
   - The ability to display the number of items in the list.
4. You can use the following components:
   - TextInput, Button, and Text to create the user interface for the app.
   - State to keep track of the list of items and the number of items in the list.
   - Props to pass data from one component to another.

Submission:

Submit your completed assignment through Canvas by 7ᵗʰ April 2023 for 5% bonus. The regular deadline is 8ᵗʰ April 2023. Your submission should include:

1. A .zip file containing the source code for your app.
2. A readme file inside the zip file explaining in brief the working of your App, how many hours it took you to complete it, what were the most challenging parts, and please cite any websites or any other sources you used.
3. A video showcasing the working of your App, you may include your voice, it is not compulsory. Your video should show all the requirements of the assignment.

Grading:

This assignment will be graded based on the following criteria:

- Proper functioning of the app (70%)
- Quality, clarity of the code, and descriptive readme file (30%)

References:

1. [React Native Environment Setup](#)
2. [React Native Introduction](#)
3. [What is React?](#)