

Program3 – 50 points

Submission

1. Program3 will be due December 15 @11:59 pm.
2. Submit your code to the folder at *K:\Courses\CSSE\yues\cs4830\program3\yourname*.
3. Within your project folder, create a file name *readme.md* providing instructions on how to run the app. -5 points if the file is not submitted.
4. Submit the whole project folder **except** *node_modules*.

Requirements

The goal of this program is to apply all the key knowledge we learned about React Native by creating a Class Attendance app.

This app should be able to allow the user to:

- 1) login as an instructor. You need to set up a server running in the backend for authenticating users. It's ok to hard-code a list of valid accounts (username and password pairs). Please set the port number to 6666.
- 2) monitor class attendance for multiple classes. After a successful login, the main screen should contain a list of classes. When the user touches a class name (component *TouchableOpacity*), navigate to the attendance screen that shows a list of student names. It is required to list students using the *SectionList* component. You are supposed to populate the student list using data fetched from the Random User Generator API (<https://randomuser.me/documentation>). The maximum class size is set to 30 by default. Similar to what you did for program1, put a checkbox (component *Switch*) before each student name, which by default is set to true indicating that the student shows up in the class. If a checkbox gets unchecked, which means the student is a no-show, *No-show count* needs to be incremented. Add a button next to each student that removes that student when clicked. Update both *Student count* and *No-show count* if necessary.
- 3) add new students to a class. In the header of the attendance screen, make the *headerRight* a button. When clicked, navigate to the add-Student screen. Every student should have a unique id. It is not allowed to add a student whose Id is the same as that of an existing student.
- 4) add a new class and change the maximum class size. You need to create a setting page where the user can perform the actions.

It is required to use all three types of navigators from react-navigation in the app.