

Mid-Term Examination – PROG8111

Total Grade Points: 25, Time: 3 Hours

Objective:

You are tasked with developing a **single-screen** mobile app that allows users to check in daily with their personal wellness habits. This app helps users keep track of basic routines such as hydration, screen breaks, and mood - all in one screen. The UI should be clean, styled, and interactive.

You must use **React Native CLI with TypeScript** and should adhere to class learnings of this course.

Functional Requirements (Single Screen Only):

1. App Content & Layout:

- Use a **functional component** written in TypeScript.
- Display a **header** (Text) and a background image (ImageBackground).
- Include a **user name input field** (TextInput) using a state variable.
- Use **RadioButton.Group** to let the user select their **mood** (e.g., Happy, Tired, Neutral).
- Add a **number input** (TextInput with keyboardType="numeric") to let the user enter how many **glasses of water** they drank today (hydration).
- Add a **Switch** to track if they've taken regular screen breaks.

2. Interactivity & Feedback:

- Include a **Submit** button (TouchableOpacity).
- On press, show a summary using a **Modal** that displays the user's name, selected mood, screen break status, and glasses of water consumed.
- Use **KeyboardAvoidingView** to prevent keyboard overlap with inputs.
- Use basic **Styling** to organize layout and colors.
- Add a **Pressable** button to **reset all inputs**.

Requirements:

- All components must use TypeScript types (e.g., for state and props).
- Use hooks (e.g., useState) where required.
- Use only core React Native components.
- All functionality must exist on a single screen.

Submission Requirements:

1. Release APK
2. A Word document with all relevant screenshots of your running application and the entire code commented meaningfully. Code pasted as image will not be considered for evaluation. Do Not zip this document
3. Zip of the Application folder structure without node-modules and android build directories (deleted)

Important Note:

- The submission will not be considered for evaluation without the zip of the React Native Application, Word document and the release APK.
- There will be no late penalty scheme available for mid-term examination. Late submissions will not be considered for evaluation under any circumstances.