

Exercise 2 – CS5450 Mobile Programming

React Native Messages Directory App

Overview

A fully functional and aesthetic mobile app developed using **React Native with Expo**. This project serves as **Exercise 2** for the CS5450 Mobile Programming course, demonstrating a categorized message management system.

The app features:

- A grid of circular category buttons (e.g., Personal, Work, School, etc.)
 - Unique preloaded messages per category
 - Full CRUD (Create, Read, Update, Delete) for message management
 - A modal-based interface for adding messages and directories
 - All logic implemented in a **single App.js file**
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Key Features

1. Home Screen (Category Grid)

- Circular UI cards with emojis and background colors
- 8 pre-defined categories with different messages
- Dynamic addition of new categories

2. Message View & Edit

- View messages under each selected directory
- Edit or delete individual messages
- Add new messages using a modal input form

3. Add Category Feature

- Dedicated button to add a new directory
- Prevents blank entries
- Appends to existing directory list with a new ID

4. Responsive UI Design

- ScrollView layout for directories and messages
- Bottom-aligned Add Category button

- Light theme with visually clean layout

Project Structure

YourMessagesApp/

```
|— App.js          # Entire app in one file
|— package.json    # Expo project metadata
|— node_modules/   # Auto-generated dependencies
|— assets/         # Optional: for emojis/images
└— README_MessagesApp.txt # This file
```

Setup Instructions

Prerequisites:

- Node.js
- Expo CLI (`npm install -g expo-cli`)

Steps to Run:

1. Navigate to project directory

```
cd YourMessagesApp
```

2. Start the app

```
npx expo start --localhost
```

Test:

- Scan QR using Expo Go app on your mobile
 - Or press `a` in terminal to open in Android emulator
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💡 Implementation Highlights

- **Modal Forms:** Used for adding/editing messages and creating categories
 - **State Management:** React `useState` for storing messages and category data
 - **StyleSheet:** Custom visual style for each component
 - **Dynamic UI:** Loop-rendered components using `.map()` and `FlatList`
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📷 Screenshots

Please refer to the attached screenshots included in your submission on D2L or GitHub for:



