

# React Native Message App Demo

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This is a mobile message demo application built with **React Native** and **TypeScript**.  
It demonstrates directories, messages, messages management.

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## Project Structure

```
MessageApp/                                # root folder
├── App.tsx                                # App entry with NavigationContainer
├── index.ts                                # Entry point
├── app.json / package.json                # Configuration files
├──
├── src/
│   ├── assets/
│   │   └── images/                        # Icons for message categories
│   │       ├── family.png
│   │       ├── work.png
│   │       ├── school.png
│   │       └── ...more icons
│   ├── data/
│   │   └── messageData.ts                # Default message data for all categories
│   ├── navigation/
│   │   └── TabNavigator.tsx              # Optional bottom tab navigation
│   └── screens/
│       ├── DirectoryScreen.tsx           # Main category directory screen
│       └── MessageListScreen.tsx         # Message list screen (search + add + delete)
```

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## IDE Platform for Coding: Android Studio

Github Url: [https://github.com/tantss333/exercise\\_02.git](https://github.com/tantss333/exercise_02.git)

### 📱 How to Install and Run the App

#### 1. Make sure you have Node.js and Expo CLI:

- install nodeJs (<https://nodejs.org/en/download>)
- install expo : **npm install -g expo-cli**

#### 2. Clone this repository:

```
git clone https://github.com/tantss333/exercise_02.git
cd exercise_02
```

### 3. Install dependencies:

```
npm install
```

### 4. Install Expo Navigation and AsyncStorage if not installed yet

```
npx expo install @react-navigation/native
```

```
npx expo install @react-navigation/native-stack
```

```
npx expo install react-native-screens react-native-safe-area-context react-native-gesture-handler react-native-reanimated
```

```
npx expo install @react-native-async-storage/async-storage
```

### 5. Running the App

- Be sure that load the project from the root folder, for example: **exercise\_02**
- Be sure you **connect your mobile device**(either virtual or practical) in IDE
- via terminal:

```
npx expo start
```

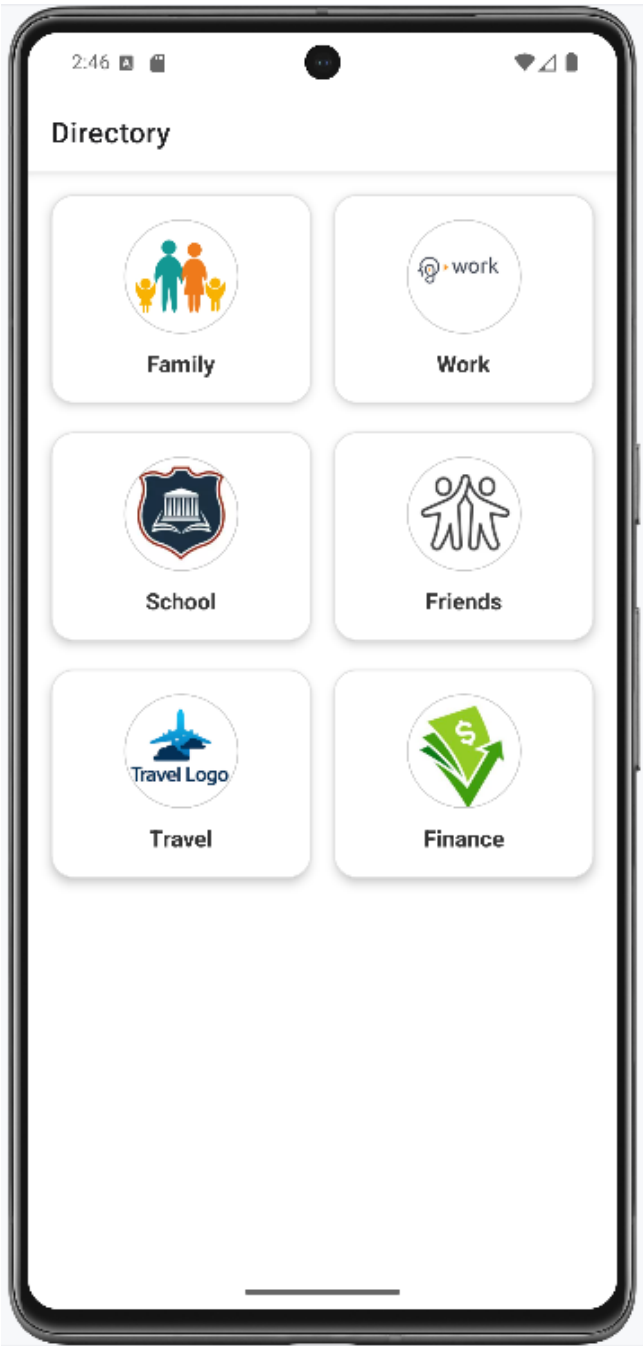
### 6. To test

Follow the instructions showed on the terminal:

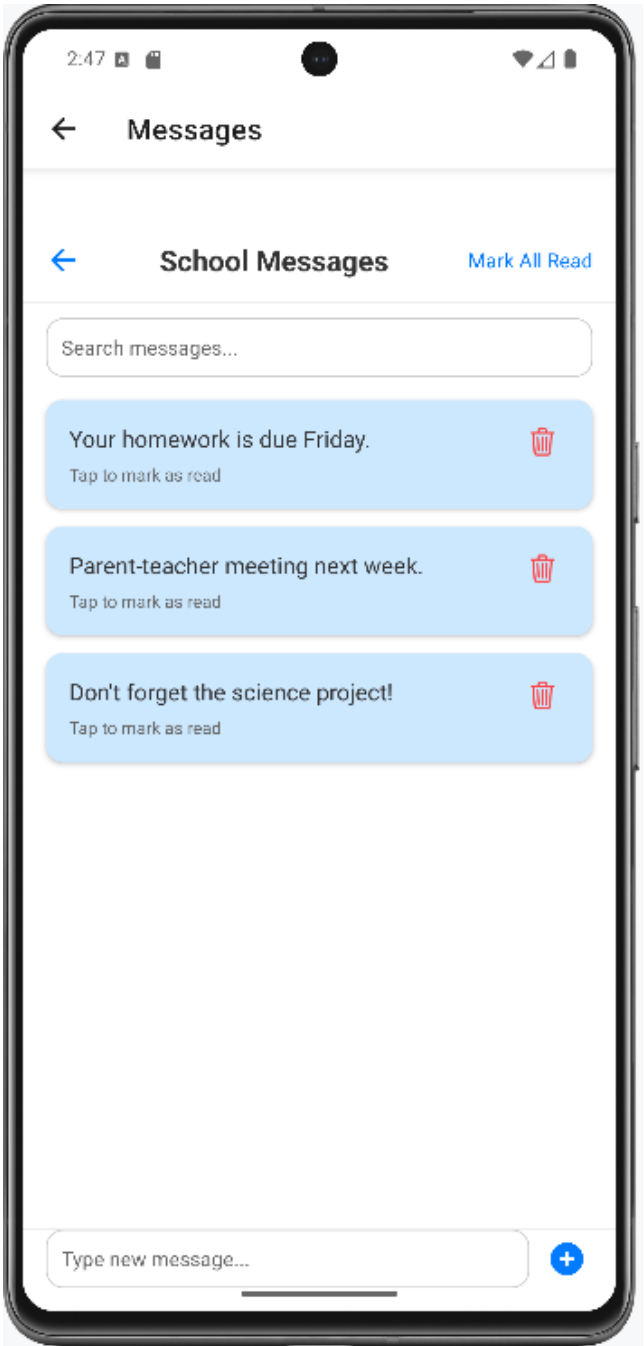
- Press **w** to open in a Web browser
- Press **a** to open in Android device
- Or **scan the QR code** using the **Expo Go App** on your mobile device

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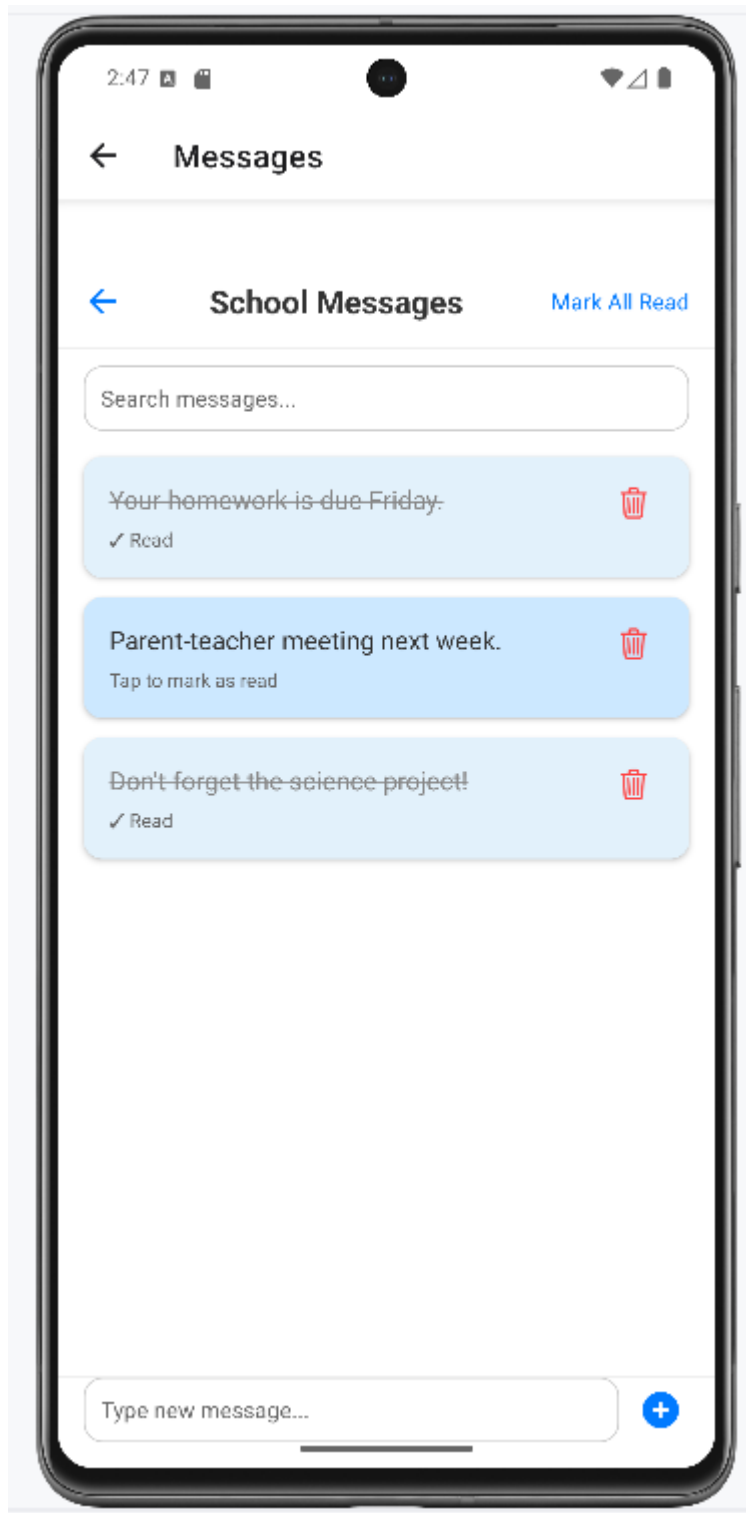
## Screenshots



Main Page



Message List Page



Message Function (**mark, delete, add**)

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## ☑ Features Implemented

- 📁 Category Browsing 6 predefined categories: Family, Work, School, Friends, Travel and Finance.
- 📄 Message Listing Each category holds its own independent message set.
- ☑ Mark as Read / All Read Toggle single read state or mark all as read at once.
- 🗑 Delete Messages Tap delete to remove messages (with confirm on Web).

- 🔍 Search Bar Real-time filtering of visible messages.
  - + Add New Messages Input box at bottom to add and store new messages.
  - 💾 Local Persistence Messages and read status stored locally using AsyncStorage
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## ⚠ Notes

- If you're using a custom folder like `assets/`, update image paths accordingly
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## 📌 Author

- Student: Sheng Tan
- Student ID: 1252550