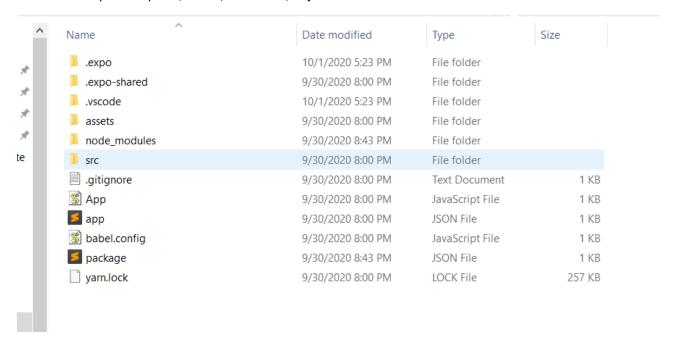


## Lab 6: Core APIs

1. ให้นักศึกษาทำการสร้าง New Project โดยให้ Folder มีดังนี้ Mobile\<รหัสนักศึกษา>\Message

## Expo init <path\folder\StudentID\Project name>

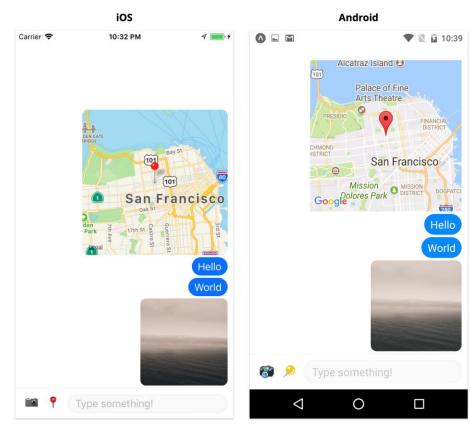


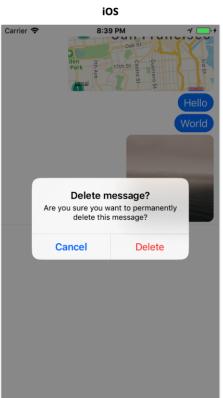
2. ให้นักศึกษาเขียนโปรแกรมเพื่อรับส่งข้อความและรูปภาพ (ดังแสดงตามรูปภาพข้างล่างนี้) โดยการปฏิบัติครั้งนี้ให้นักศึกษาทำ การสร้าง NetInfo, StatusBar, MessageList, Alert

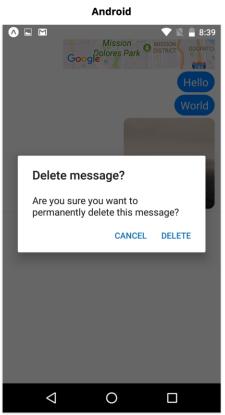
Hint: (Component) View, Text, Image

(APIs) NetInfo, MessageList, Statusbar, Alert

## ชื่อ นายภูชิต รุ่งระวิ รหัสนักศึกษา 61070166









```
Js Status.js
Js Chat.js
                Js MessageUtils.js
                                     Js App.js
                                                 ×
Js App.js > ...
       import { StatusBar } from "expo-status-bar";
       import React from "react";
       import { StyleSheet, Text, View } from "react-native";
       import Chat from "./src/Chat";
   5
       import Status from "./src/Status"
       export default function App() {
  8
          return (
            <View style={styles.container}>
              <Chat />
  10
              <Status/>
  11
  12
            </View>
  13
          );
  14
 15
       const styles = StyleSheet.create({
         container: {
 17
           flex: 1,
 18
         },
  19
       });
  20
  21
```



```
src > 媽 Status.js > 😭 Status > 🗘 render
      import Constants from "expo-constants";
      import NetInfo from "@react-native-community/netinfo";
      import { Platform, StatusBar, StyleSheet, Text, View } from "react-native";
      import React from "react";
      export default class Status extends React.Component {
        state = {
  7
          isConnected: true,
        };
        async componentDidMount() {
          this.handleChange = ({ isConnected }) => {
 11
            this.setState({ isConnected });
 12
          };
          this.subscription =
 13
          NetInfo.addEventListener(this.handleChange);
 15
          const { isConnected } = await NetInfo.fetch();
          this.setState({ isConnected });
17
        componentWillUnmount() {
          this.subscription()
 20
          render() {
 22
            const handler = (status) => {
 23
              console.log('Network status changed', status);
 24
            };
            const subscription = NetInfo.addEventListener(handler);
 26
            const statusHeight =(Platform.OS ==='ios' ? Constants.statusBarHeight : 0);
            const styles = StyleSheet.create({
 28
 29
              messageContainer: {
                zIndex: 1,
                position: 'absolute',
                top: statusHeight + 20,
                right: 0,
 34
                left: 0,
                height: 80,
                alignItems: 'center',
                zIndex: 1
              bubble: {
                paddingHorizontal: 20,
                paddingVertical: 10,
42
                borderRadius: 20,
43
                backgroundColor: 'red',
 44
              },
45
              text: {
                color: 'white',
```

```
},
           });
           const { isConnected } = this.state;
           const backgroundColor = isConnected ? 'white' : 'red';
           const statusBar = (
             <StatusBar
               backgroundColor={backgroundColor}
               barStyle={isConnected ? 'dark-content' : 'light-content'}
               animated={false}
           );
           const messageContainer = (
               <View style={styles.messageContainer} pointerEvents={'none'}>
                 {statusBar}
                 {!isConnected && (
                   <View style={styles.bubble}>
                     <Text style={styles.text}>No network connection</Text>
64
                   </View>
                  )}
               </View>
67
           if (Platform.OS === 'ios') {
69
             return (
70
               <View style={[styles.status, { backgroundColor }]}>
                {messageContainer}
72
               </View>
              );
           return messageContainer; // Temporary!
79
```



```
Js Chat.js
          X Js App.js
                              Js Status.js
      import React, {useState, useEffect} from "react";
       import PropTypes from "prop-types";
      import { StyleSheet, Text, View, FlatList, TouchableOpacity, Alert, Image } from "react-native";
     import { MessageShape, createTextMessage, createImageMessage } from "./utils/MessageUtils";
      const Chat = () => {
         messages: PropTypes.arrayOf(MessageShape).isRequired,
          onPressMessage: PropTypes.func,
          ...createTextMessage("chanayus"),
          ...createTextMessage("555555"),
 20
            ...createImageMessage("https://cdn.bpicc.com/2019/02/24/FinishedHOME_851.jpg"),
           ...createTextMessage("chanayusGod"),
           ...createTextMessage("chanayus"),
           ...createImageMessage("https://cdn.bpicc.com/2020/09/30/12C18629-6788-43E1-B7F5-845AC47B4A10.jpg")
            ...createTextMessage("chanayus"),
            ...createTextMessage("555555"),
           },
            ...createTextMessage("chanayus"),
             ...createTextMessage("555555"),
             ...createTextMessage("chanayus"),
```



```
const [dataList, setDataList] = useState(data)
const deleteText = (itemDelete) =>{
  const newList = dataList.filter((item, index) =>{
                    if (itemDelete.id !== item.id){
            setDataList(newList)
 const textAlert = (item) =>{
          Alert.alert(
                       "Delete message?",
"Are you sure you want to permanently delete this message?",
                                          text: "CANCEL",
onPress: () => console.log("Cancel Pressed"),
                                             style: "cancel"
                              },
{ text: "DELETE", onPress: () => deleteText(item) }
                       { cancelable: false }
 const renderItem = ({ item }) => {
            switch (item.type) {
          \verb|box = \langle \texttt{View style=\{styles.textMessage}\} \times \texttt{Text style=\{\{color: "white"\}\}} \times \texttt{(item.desc)} \times \texttt{(Text)} \times \texttt{(View)} \times \texttt
                     case "image":
                              box = <View style={styles.imgMessage}><Image style={styles.imgBox} source={{uri: item.uri}}/></View>
                    default:
                     <TouchableOpacity style={styles.chat} /*onPress={() => deleteText(item)}*/ onLongPress={() => textAlert(item) } delayLongPress={1000}>
```



```
return (
         <View style={styles.container}>
           ≺FlatList
            data={dataList}
106
              renderItem={renderItem}
              keyExtractor={(item) => item.id}
      const styles = StyleSheet.create({
      container: {
         flex: 1,
         marginTop: 20,
       chat: {
         flex: 1,
         marginVertical: 8,
         marginHorizontal: 16,
        alignItems: "flex-end",
       textMessage: {
         backgroundColor: "#0099FF",
         padding: 10,
          flex: 1,
         borderRadius: 10,
          flexDirection: "row",
       imgMessage:{
         padding: 10,
         flex: 1,
         borderRadius: 10,
          flexDirection: "row",
        imgBox:{
         width: 150,
         height: 150,
         borderRadius: 20
      export default Chat;
```



```
Js Chat.js
               ■ MessageUtils.js ×
                                  Js App.js
                                                  Js Status.js
src > utils > Js MessageUtils.js > ♥ getNextId
       import PropTypes from "prop-types";
  3 vexport const MessageShape = PropTypes.shape({
        id: PropTypes.number.isRequired,
        type: PropTypes.oneOf(["text", "image", "location"]),
        text: PropTypes.string,
        uri: PropTypes.string,
  8 ∨ coordinate: PropTypes.shape({
           latitude: PropTypes.number.isRequired,
         longitude: PropTypes.number.isRequired,
        }),
      });
       let messageId = 0;
 15 ∨ function getNextId() {
        messageId += 1;
        return messageId;
 19 vexport function createTextMessage(desc) {
          type: "text",
 22
         id: getNextId()+"",
         desc,
        };
 27 v export function createImageMessage(uri) {
 28 v return {
         type: "image",
         id: getNextId()+"",
 30
         uri,
  34 vexport function createLocationMessage(coordinate) {
       return {
          type: "location",
           id: getNextId()+"",
 37
          coordinate,
```