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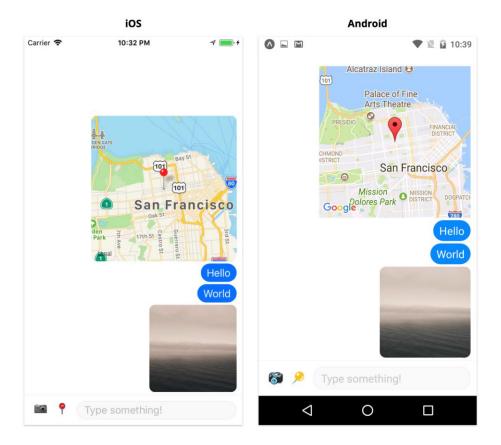
Lab 6: Core APIs

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

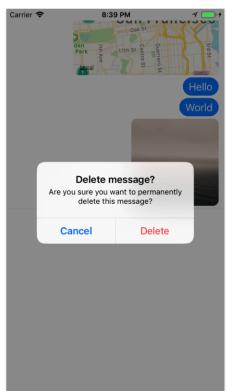
Hint: (Component) View, Text, Image

(APIs) NetInfo, MessageList, Statusbar, Alert

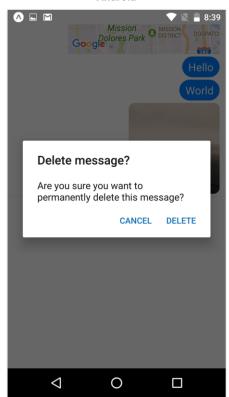




iOS



Android





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App.js (1/2)

```
JS App.js
               JS Status.js
                               JS MessageList.js
                                                  JS MessageUtils.js
Message > JS App.js > 😭 App > 😭 renderToolbar
       import { StyleSheet, View , TextInput, Text} from "react-native";
       import React from "react";
       import Status from "./components/Status";
       import Meslist from "./components/MessageList";
      import {createTextMessage, createImageMessage, createLocationMessage} from "./utils/MessageUtils";
      export default class App extends React.Component {
        constructor(props) {
          super(props);
          this.state = {
            textinp: "",
            listmes: [],
        setlistmes = () => {
           if (this.state.textinp.trim().length == 0) {
           return;
          this.setState({
            listmes: [createTextMessage(this.state.textinp), ...this.state.listmes],
            textinp: ""
        deleteMessage = (id) => {
          console.log("ASDasdas");
          this.setState({
            listmes: this.state.listmes.filter((obj) => obj.id !== id)
        renderMessageList() {
             <View style={styles.areames}>
              <Meslist message={this.state.listmes} deleteMessage={this.deleteMessage} />
            </View>
         renderInputMethodEditor() {
           return <View style={styles.inputMethodEditor}></View>;
```



```
renderToolbar() {
         return <View style={styles.textInputContainer}>
44
         TextInput
           style={styles.textInput}
           placeholder="Type something!"
           onChangeText={(text) => this.setState({ textinp: text })}
                                                                       App.js (2/2)
           // onSubmitEditing={() => this.setState({ listmes: this.sta
           onSubmitEditing={this.setlistmes}
           value={this.state.textinp}
         /|>
       </View>:
       render() {
         return (
           <View style={styles.container}>
             <Status />
             {this.renderMessageList()}
             {this.renderToolbar()}
             {/* {this.renderInputMethodEditor()} */}
           </View>
         );
     const styles = StyleSheet.create({
       container: {
         flex: 1,
         backgroundColor: "white",
70
       content: {
         flex: 1,
         backgroundColor: "white",
       inputMethodEditor: {
76
         flex: 1,
         backgroundColor: "white",
                                                                           textInput: {
                                                                             color: "black",
79
       toolbar: {
                                                                             backgroundColor: "#eee",
         borderTopWidth: 1,
                                                                             paddingVertical: 5,
         borderTopColor: "rgba(0,0,0,0.04)",
                                                                             paddingHorizontal: 10,
         backgroundColor: "white",
                                                                             borderRadius: 15,
       },
                                                                             marginBottom:5
       areames: {
                                                                           },
         alignItems: "flex-end",
                                                                   98
         alignContent: "flex-end",
                                                                         });
         flex: 5,
         paddingRight: 15,
```



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Status.js (1/2)

```
JS App.js
               JS Status.js X
                                JS MessageList.js
                                                   JS MessageUtils.js
Message > components > JS Status.js > ...
      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 = {
           isConnected: true,
         render() {
          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>
                 </View>
             </View>
           // console.log(Platform.OS);
           if (Platform.OS === "android") {
               <View style={[styles.status, { backgroundColor }]}>
                 {messageContainer}
               </View>
         async componentDidMount() {
           this.subscription = NetInfo.addEventListener(this.handleChange);
           const { isConnected } = await NetInfo.fetch();
           this.setState({ isConnected });
         componentWillUnmount() {
           this.subscription();
```



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Status.js (2/2)

```
JS Status.js
                                 JS MessageList.js
                                                    JS MessageUtils.js
JS App.js
Message > components > JS Status.js > ...
         handleChange = ({ isConnected }) => {
           this.setState({ isConnected });
         };
       const handler = (status) => {
         console.log("Network status changed", status);
       };
       const subscription = NetInfo.addEventListener(handler);
       const statusHeight = Platform.OS === "ios" ? Constants.statusBarHeight : 0;
       const styles = StyleSheet.create({
         status: {
           zIndex: 1,
           height: statusHeight,
         },
         messageContainer: {
           zIndex: 1,
           position: "absolute",
           top: statusHeight + 20,
           right: 0,
           left: 0,
           height: 80,
           alignItems: "center",
 71
         },
         bubble: {
           paddingHorizontal: 20,
           paddingVertical: 10,
           borderRadius: 20,
           backgroundColor: "red",
         },
 79
         text: {
           color: "white",
        },
 82
       });
```



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MessageList.js (2/2)

```
JS MessageUtils.js
                               JS MessageList.js •
S App.js
               JS Status.is
Message > components > Js MessageList.js > 😭 MessageList > 🔑 defaultProps
      import React from "react";
      import PropTypes from "prop-types";
      import { StyleSheet, View, Text, FlatList, Alert , TouchableOpacity} from "react-native";
      import { MessageShape } from "../utils/MessageUtils";
      const keyExtractor = (item) => item.id.toString();
      export default class MessageList extends React.Component {
        static propTypes = {
          messages: PropTypes.arrayOf(MessageShape).isRequired,
          onPressMessage: PropTypes.func,
        static defaultProps = {
          onPressMessage: () => {},
        };
        render() {
          const deleteMessage = (id) => {
            Alert.alert(
              "Delete message?",
              "Are you sure you want to permanently delete this message?",
                  text: "Cancel",
                  text: "Delete",
                  onPress: () => this.props.deleteMessage(id),
          const MessageItem = (itemData) => {
            return (
              <TouchableOpacity
                style={styles.message}
                                                                                      const styles = StyleSheet.create({
                key={itemData.item}
                                                                                        text: {
                onLongPress={() => deleteMessage(itemData.item.id)}
                                                                                           paddingHorizontal: 10,
                                                                                           paddingVertical: 6,
                  <Text style={styles.text}>{itemData.item.text}</Text>
              </TouchableOpacity>
                                                                                           borderRadius: 20,
                                                                                           backgroundColor: "lightblue",
          };
                                                                                        },
          return <FlatList
                                                                                        message: {
          data={this.props.message}
                                                                                           justifyContent: "center",
                                                                                           alignItems: "flex-end",
          renderItem={MessageItem} inverted
                                                                                           padding: 3,
                                                                                        },
```



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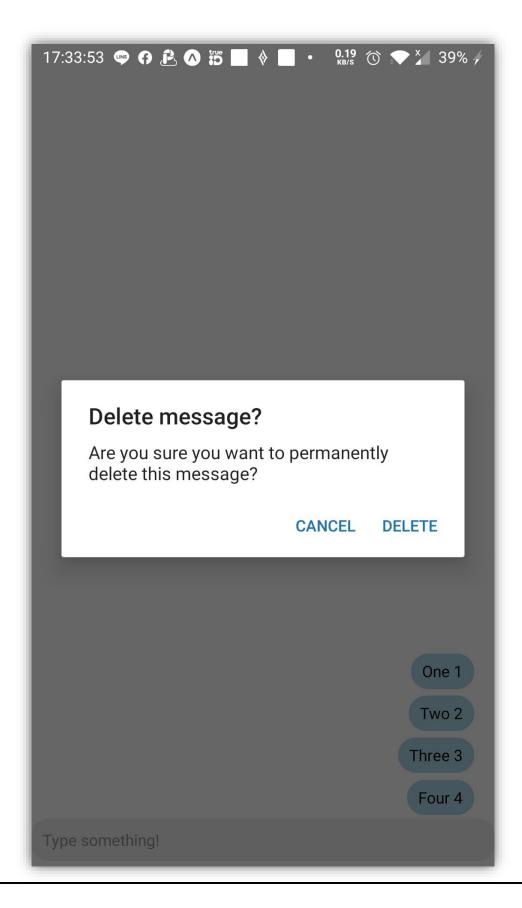
MessageUtils.js (2/2)

```
JS App.js
                JS Status.js
                                 JS MessageList.js
                                                    JS MessageUtils.js •
Message > utils > JS MessageUtils.js > ...
       import PropTypes from "prop-types";
       export const MessageShape = PropTypes.shape({
         id: PropTypes.number.isRequired,
         type: PropTypes.oneOf(["text", "image", "location"]),
         text: PropTypes.string,
         uri: PropTypes.string,
         coordinate: PropTypes.shape({
           latitude: PropTypes.number.isRequired,
           longitude: PropTypes.number.isRequired,
        }),
       });
 11
 12
 13
       let messageId = 0;
       function getNextId() {
         messageId += 1;
         return messageId;
 17
       export function createTextMessage(text) {
        return {
           type: "text",
 20
           id: getNextId(),
           text,
         };
 24
       export function createImageMessage(uri) {
         return {
           type: "image",
           id: getNextId(),
 29
           uri,
         };
       export function createLocationMessage(coordinate) {
         return {
           type: "location",
           id: getNextId(),
           coordinate,
         };
```



17	:33:40	LINE	A	ß	^	true	♦	•	19.9 кв/s	0	X	39%	4
											0	ne 1	
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ĺ	17:33:58	UNE	n	ß	^	true	♦	•	0.51 кв/s	ౕౕ	X	40%	4
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											Thr	ee 3	
											Fo	our 4	
	Type som	neth	ing	!									



17:36:49 Λ Σ	ⓒ ¾ 45% 🗲
No network connection	
	One 1
	Three 3
	Four 4
Type comething!	
Type something!	