

ขื่อ	นายศรัณย์ ยันตะบุษย์
รหัสนักศึกษา	61070218

Lab 6: Core APIs

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

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

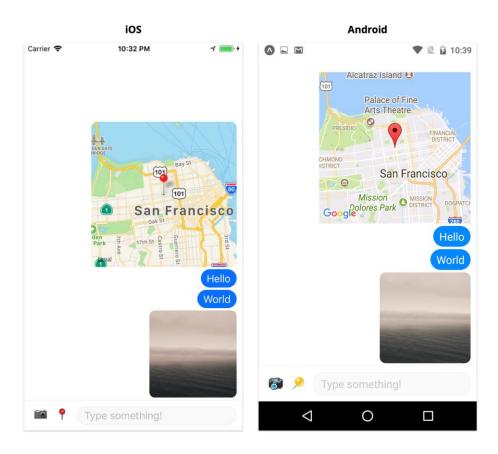
C:\mobile>expo init Messagenpm	
There is a new version of expo-cli available (3.27.12). You are currently using expo-cli 3.23.3 Install expo-cli globally using the package manager of your choice; for example: npm install -g expo-cli to get the latest version	
? Choose a template: expo-template-blank ✓ Downloaded and extracted project files. ✓ Installed JavaScript dependencies.	
∜ Your project is ready!	
To run your project, navigate to the directory and run one of the following	npm commands.
- cd Message - npm start # you can open iOS, Android, or web from here, or run them direc - npm run android - npm run ios # requires an iOS device or macOS for access to an iOS simulat - npm run web	

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

Hint: (Component) View, Text, Image

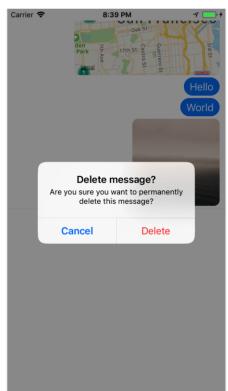
(APIs) NetInfo, MessageList, Statusbar, Alert



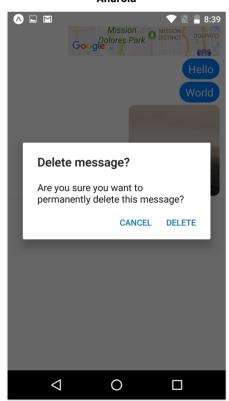




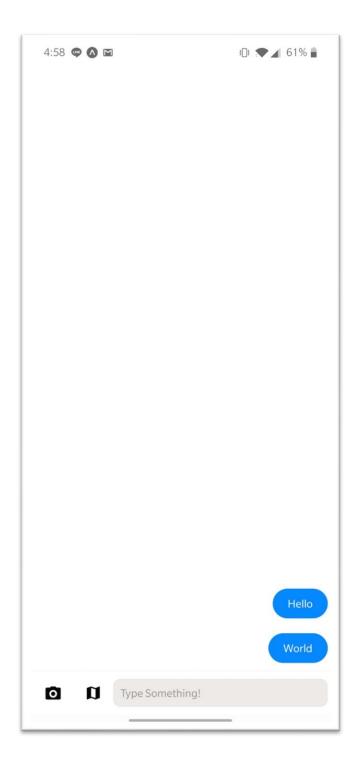
iOS



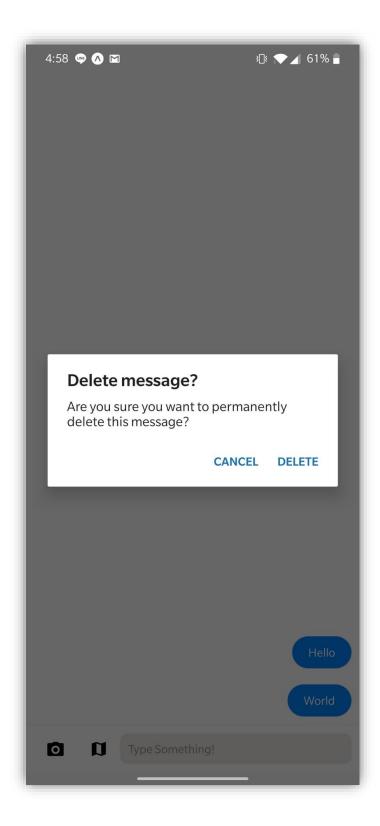
Android



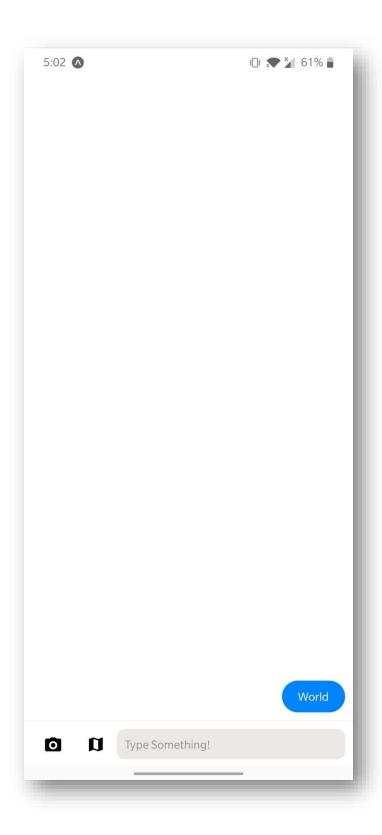




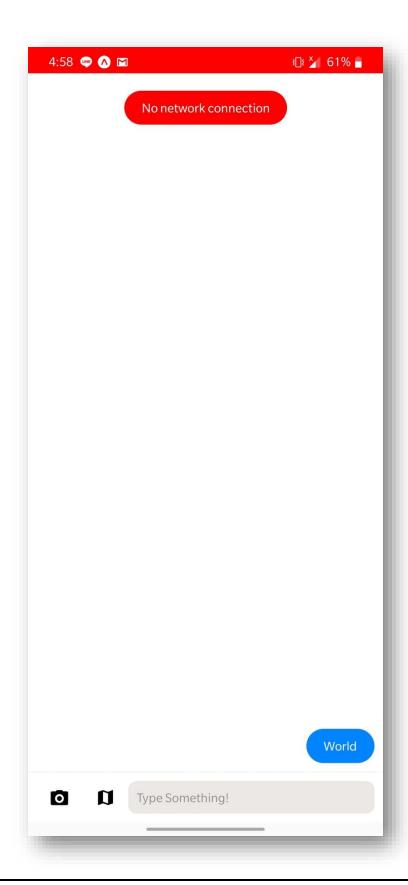














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App.js

```
import React, { useState } from "react"
import Status from "./components/Status";
import MessageList from "./components/MessageList";
import MessageInput from "./components/MessageInput";
 const [messages, setMessages] = useState([]);
  const addMessageHandler = (messageData) => {
  const deleteMessageHandler = (id) => {
    Alert.alert(
      "Delete message?",
      "Are you sure you want to permanently delete this message?",
            setMessages((prevMessages) =>
prevMessages.filter((message) => message.id !== id)
      <View style={styles.content}>
        <MessageList</pre>
         messages={messages}
onPressMessage={deleteMessageHandler}
      </View>
    return <View style={styles.inputMethodEditor}></View>;
        MessageInput
          onPressMessage={deleteMessageHandler}
      </View>
    </View>
```

```
const styles = StyleSheet.create({
   container: {
     flex: 1,
     backgroundColor: "white",
   },
   content: {
     flex: 1,
     backgroundColor: "white",
   },
   inputMethodEditor: {
     flex: 1,
     backgroundColor: "white",
   },
   toolbar: {
     borderTopWidth: 1,
     borderTopColor: "rgba(0,0,0,0.04)",
     backgroundColor: "white",
   },
});
```



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Status.js

```
import { View, Text, StatusBar, StyleSheet, Platform } from "react-native";
import NetInfo from "@react-native-community/netinfo";
const statusHeight = Platform.OS === "ios" ? Constants.statusBarHeight : 0;
  const [isConnected, setIsConnected] = useState(null);
    const setInitialStatus = async () => {
     const status = await NetInfo.fetch();
    const unSubscription = NetInfo.addEventListener((status) => {
  const backgroundColor = isConnected ? "white" :: "red";
  const messageContainer = (
    <View style={styles.messageContainer} pointerEvents={"none"}>
        backgroundColor={backgroundColor}
        barStyle={isConnected ? "dark-content" : "light-content"}
        animated={false}
      {!isConnected && (
        <View style={styles.bubble}>
          <Text style={styles.text}>No network connection</Text>
        </View>
    </View>
  if (Platform.OS === "ios") {
      <View
        style={{
          backgroundColor: backgroundColor,
        {messageContainer}
      </View>
  return messageContainer;
```

```
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",
    },
    bubble: {
        paddingHorizontal: 20,
        paddingVertical: 10,
        borderRadius: 20,
        backgroundColor: "red",
    },
    text: {
        color: "white",
    },
});
export default Status;
```



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MessageInput.js

```
import { View, TextInput, StyleSheet, Platform } from "react-native";
import { Ionicons } from "@expo/vector-icons";
import { createTextMessage } from "../utils/MessageUtils";
 const [message, setMessage] = useState("");
      <View style={styles.icon}>
        <Ionicons
          name={Platform.OS === "android" ? "md-camera" : "ios-camera"}
      <View style={styles.icon}>
          name={Platform.OS ==== "android" ? "md-map" : "ios-map"}
           size={23}
      </View>
      <View style={styles.textInput}>
        <TextInput
          value=(message)
onChangeText={(text) => setMessage(text)}
          onSubmitEditing={() => {
           props.onSubmit(createTextMessage(message));
      </View>
    </View>
const styles = StyleSheet.create({
   justifyContent: "space-around",
paddingVertical: 10,
paddingHorizontal: 10,
    flex: 5,
backgroundColor: "#ebe8e6",
borderRadius: 10,
```



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MessageList.js

```
} from "react-native";
import PropTypes from "prop-types";
import { MessageShape } from ".../utils/MessageUtils";
const MessageList = (props) => {
  const renderItem = (itemData) => {
         <TouchableOpacity
          style={styles.messageItem}
onLongPress={() => props.onPressMessage(itemData.item.id)}
            <Text style={styles.bubble}>{itemData.item.text}</Text>
          </TouchableOpacity>
    <FlatList</pre>
      renderItem={renderItem}
const styles = StyleSheet.create({
 messageItem: {
    alignItems: "flex-end",
    paddingHorizontal: 20,
paddingVertical: 10,
borderRadius: 20,
    backgroundColor: "#0084ff",
MessageList.propTypes = {
 messages: PropTypes.arrayOf(MessageShape).isRequired,
onPressMessage: PropTypes.func,
MessageList.defaultProps = {
export default MessageList;
```



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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,
   latitude: PropTypes.number.isRequired,
   longitude: PropTypes.number.isRequired,
function getNextId() {
export function createTextMessage(text) {
   id: getNextId(),
export function createImageMessage(uri) {
   type: "image",
   id: getNextId(),
export function createLocationMessage(coordinate) {
   id: getNextId(),
```