Calling

A couple of old StackOverflow posts. I am pretty sure they are outdated and do not work this way anymore, but I have not checked if there are workarounds to use these functions in the android API now.

* [Can I implement automatic call to someone in Android? - Stack Overflow](https://stackoverflow.com/questions/10378866/can-i-implement-automatic-call-to-someone-in-android)
* [There is any Android API to record call conversation and/or automatically answer calls? - Stack Overflow](https://stackoverflow.com/questions/21066956/there-is-any-android-api-to-record-call-conversation-and-or-automatically-answer) (This one asks several questions, and received specific answers for each question. One of them mentions sending a Bluetooth keydown event, may be worth looking into)

Several answers I have found refer to intents in the android API, and they seem to be possible in expo using this: [IntentLauncher - Expo Documentation](https://docs.expo.dev/versions/v46.0.0/sdk/intent-launcher/). Unfortunately it is only compatible with android

For instance, here is a link to the android API documentation on an intent for making a phone call. <https://developer.android.com/reference/android/content/Intent#ACTION_CALL>

A couple of old github repos for react native packages. None of them are likely to work, but including anyways just in case, and for reference.

* React native package for making phone calls without user intervention.

[GitHub - wumke/react-native-immediate-phone-call: Initiate immediate phone call (without further user interaction) for React Native on iOS and Android.](https://github.com/wumke/react-native-immediate-phone-call)

* Interface for both telephony frameworks in iOS and Android.

[GitHub - motius/react-native-telephony-apis: 📱 This project allows access to the telephony APIs of Cocoa and Android](https://github.com/motius/react-native-telephony-apis)

A couple of links regarding the call screening service. The first is a link to the android API for it, and the second is a stackoverflow question asking how to bind it.

* <https://developer.android.com/reference/android/telecom/CallScreeningService.html>
  + “This service can be implemented by the default dialer or a third party app to allow or disallow incoming calls before they are shown to a user. Can also see outgoing calls for the purpose of providing caller ID services for those calls.”
* [android - How to bind CallScreeningService? - Stack Overflow](https://stackoverflow.com/questions/56987962/how-to-bind-callscreeningservice)

Another stackoverflow post, which is more recent. It has two different answers, the first of which links to a github repo for a react native module. It doesn’t work from what I can tell, but the issue tracker does have some recent activity. The second answer describes making a bridge, and includes code for demonstration.

[javascript - how can I directly call a number in react native without opening dialer for android - Stack Overflow](https://stackoverflow.com/questions/65178127/how-can-i-directly-call-a-number-in-react-native-without-opening-dialer-for-andr)

<https://github.com/wumke/react-native-immediate-phone-call>

Emailing

There is another android intent for launching an email app here: <https://developer.android.com/reference/android/content/Intent#CATEGORY_APP_EMAIL>

It only launches the email app from what the description sounds like to me.

This is an Expo package for composing emails, though not entirely sure if this would work exactly as we need it to: <https://docs.expo.dev/versions/v46.0.0/sdk/mail-composer/>

Texting

Android API reference for SMSManager: <https://developer.android.com/reference/android/telephony/SmsManager>

Expo package for “access to the system's UI/app for sending SMS messages.”:

<https://docs.expo.dev/versions/v46.0.0/sdk/sms/>

Here are a couple articles describing how to do pretty much exactly what we want to accomplish, however it is not using expo, just react native:

[Example to Send Text SMS on Button Click in React Native - About React](https://aboutreact.com/send-text-sms-in-react-native/)

[React Native Bridge Example to Send Direct SMS from React Native App (aboutreact.com)](https://aboutreact.com/react-native-bridge-send-direct-sms-from-react-native-app/)

(Note, the second link is an addendum to the first in which he makes the functionality not require user intervention. It uses something called a native bridge)

Npm package for react native that can supposedly get, send, and delete messages. This could be useful to detect a response from the receiving party, if it works.

[react-native-get-sms-android-custom - npm (npmjs.com)](https://www.npmjs.com/package/react-native-get-sms-android-custom)

(An older version of this package I think, including for reference: [GitHub - briankabiro/react-native-get-sms-android: React Native module to get messages on an Android device](https://github.com/briankabiro/react-native-get-sms-android) )

Old Stackoverflow question regarding sending an SMS in the background, the answer includes code that uses Firebase and Twilio. Other answers on the page describe how one would implement Twilio into an app.

[reactjs - How to send sms messages from a React Native App programmatically ? - Stack Overflow](https://stackoverflow.com/questions/49700102/how-to-send-sms-messages-from-a-react-native-app-programmatically)

Another old stackoverflow post, was linked from the one above. A couple of answers with different ways to accomplish the functionality. Second link is from one of the answers, it is a npm package for sending SMS messages

[Is there anyway to send sms in background for both Android & IOS? - Stack Overflow](https://stackoverflow.com/questions/54689025/is-there-anyway-to-send-sms-in-background-for-both-android-ios/59662543#59662543)

[react-native-sms-x - npm (npmjs.com)](https://www.npmjs.com/package/react-native-sms-x)

Another npm package for a react native module that sends SMS. It says there are two ways to use it, inside the app or by launching the default sms application. Only for android, but mentions something about using LinkingIOS component for ios.

<https://bestofreactjs.com/repo/rhaker-react-native-sms-android-react-native-system>

Miscellaneous

A npm package for react native that utilizes android intents to accomplish a variety of tasks, The code examples shown include sending SMS, email, and phone calls. Its latest version is only a year old, so it could still work.

[react-native-send-intent - npm (npmjs.com)](https://www.npmjs.com/package/react-native-send-intent)

Database & Authentication

A template app using expo that uses firebase for a basic authentication flow. Including for reference

<https://github.com/codingki/react-native-expo-template/tree/master/template-with-firebase-auth-flow>

React Navigation documentation on Authentication flow, useful for seeing how react navigation can work when creating authentication flows

[Authentication flows | React Navigation](https://reactnavigation.org/docs/auth-flow/)

Comparison of several different database solutions. Includes details about what they offer for free

<https://github.com/255kb/stack-on-a-budget/blob/master/pages/database-hosting.md>