

Installation Guide

Pre-Requisites

1. Download and install the Java 8 JDK from [Oracle's website](#). The current version at the time of writing is 8u231.
2. Download Android Studio and the Android SDK from the [Android developer website](#).
3. Have a working Android device that can be used for testing or create a virtual emulated device by using the Android AVD manager. The [Android developer guide](#) has instructions on how to create a virtual device and instructions on how to troubleshoot the emulator if there are any issues.

Library Dependencies

The following dependencies are used in the project, but they will be automatically downloaded when compiling and running the project via Gradle:

- Android Lifecycle Components
- Android Room
- Braintree
- Dagger
- JUnit
- Kotlin
- Kotlin Coroutines
- Retrofit

Download Instructions

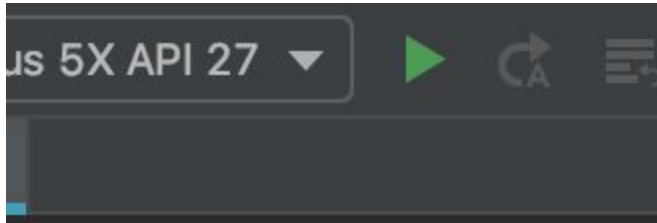
1. Orphan Connect is stored on Github, and should be downloaded as follows:
 - a. Navigate to the Terminal for Mac and Linux devices, or the CMD for Windows.
 - b. Navigate to the directory where you wish to install the application.
 - c. Enter the following command:
git clone https://github.com/Orphan-Connect-SCORE-Team/Orphan-Connect
 - d. Once installed, open Android Studio. Navigate to File → Open and select the project folder containing the cloned repository.
2. If you do not want to work off of our repository, you can also download the project as a zip file from <https://github.com/Orphan-Connect-SCORE-Team/Orphan-Connect/archive/master.zip>.

Build Instructions

Before anything else, we strongly recommend cleaning the project to prevent build errors from occurring. In Android Studio, navigate to Build → Clean Project to ensure that local file paths are not saved.

Build and Run for Testing

1. Navigate to the green play button at the top of the screen to run the program on the selected device.



2. Once clicked, the application will build, install, and run on the selected device (emulator or physical device).

Build App to Install on Phone

To create an app bundle or apk so that the app can be sent, emailed, downloaded, and installed on any Android device, go to Build → Build Bundle(s) / APK(s) → Build APK(s) or Build Bundle(s). Follow the on screen instructions and the resulting .aab or .apk file can be used to install the app on an Android phone.

Installation Process

Android 8.0+

1. Download the Orphan-Connect .aab/.apk file from the build step onto the phone.
2. Select the file either from the notification panel or from a file explorer app to install.
3. Follow the on-screen instructions and allow the application to be installed.

Android 7.x and lower

1. Navigate to the settings app.
2. Select “Security”.
3. Under “Device Administration”, tap “Unknown Sources” to toggle it to on.
4. Download the Orphan-Connect .aab/.apk file from the build step onto the phone.
5. Select the file either from the notification panel or from a file explorer app to install.
6. Follow the on-screen instructions and allow the application to be installed.

Note: These instructions may vary depending on your specific device.

Run Instructions

Open the app by clicking on the app icon. Running the software on the device will depend on your Android device version. If you encounter an issue while running the app due to the Android version, see the Installation Process section to ensure it was installed correctly.

Troubleshooting

1. After multiple builds of the application, local file paths may be saved, causing errors with the internal functionality. If the application suddenly stops working in the simulator, navigate to Build → Clean Project to clear these paths.
2. When switching between multiple branches of the project, there can be issues in regards to gradle syncing and building. This can be fixed by running the gradle clean command before assembling it again.