# element-android-examples

Element SDK Library is a standalone Android application that enables the creation of biometrics models that can be used to identify users. Element Orbit is the Android library providing interfaces to communicate with Element SDK Library. This document contains information to integrate Orbit Lite into an Android application by using Android Studio.

# **Setup with Android Studio**

#### Import Orbit Lite

- 1. Download the latest orbitlite-release.aar file.
- 2. Open your project in Android Studio.
- 3. On the top menu bar, click File->New->New Module->Import .aar/.jar libraries->Next.
- 4. In the next window, choose the path to \_ orbitlite.aar\_ in the *File Name* field, and type in *orbitlite* in the *Subproject name* field.
- 5. Click the Finish button and wait for Android Studio to finish building the project.

#### Refer to Orbit Lite as a project dependency

- 1. On the top menu bar, click *File->Project Structure*.
- 2. Select your app module under *Modules* on the left pane, switch to the *Dependencies* tab, and click on the + button at the bottom of the window.
- 3. Choose the *Module dependency* option in the popup, and select *element-orbit*.

# Integrating Orbit Lite into your application

• In AndroidManifest.xml, declare your api key in a meta-data tag.

# Implementation of the key classes

This is our <u>JavaDoc</u>

### **ElementSDKManager**

ElementSDKManager defines a set of handy functions to send out requests to Element SDK Library.

- initElementSDK(Context context): request to initialize the Element SDK Library. You should call this method in onCreate() of your application class. Otherwise syncing data will not work.
- enrollNewUser(Activity activity, String userName, HashMap<String,String> extras):
  request to add a new user
- identifyUser(Activity activity, ArrayList elementUserIds): look through the list of user ids specified to find a user via their palm
- requestSyncState(Activity activity, ArrayList elementUserIds, final SyncStateListener listener): request the sync information for the users in the list. Pass an empty list to get sync state for all users

#### Listeners

EnrollListener is used to receive Enroll results from Element SDK Library. SearchListener is used to receive Search results from Element SDK Library. SyncStateListener is used to receive SyncState results from Element SDK Library.

Call *ElementSDKManager.onActivityResult()* with an instance of one or all of these listeners to receive the appropriate callbacks after making a request.

#### **ElementSyncState**

Data classes are the informative packets that are delivered between *Element SDK Library* & *Orbit Lite*.

• *ElementSyncState*: contains the model information and status of each user in the *Element SDK Library* 

# **Notes**

- *Element SDK Library* is required to be installed on an Android device. It is available on <a href="HockeyApp">HockeyApp</a>.
- Element SDK Library is currently in beta release. Please contact Element for access.