

#### introduction

This guide is a resource for developers competing in the Google Fit Developer Challenge. It will cover everything you need to know to integrate your app with adidas X\_CELL sensors and Google Fit. Find all the challenge rules at g.co/FitDeveloperChallenge



# what you'll need



miCoach MultiSport beta app



adidas X\_CELL sensor

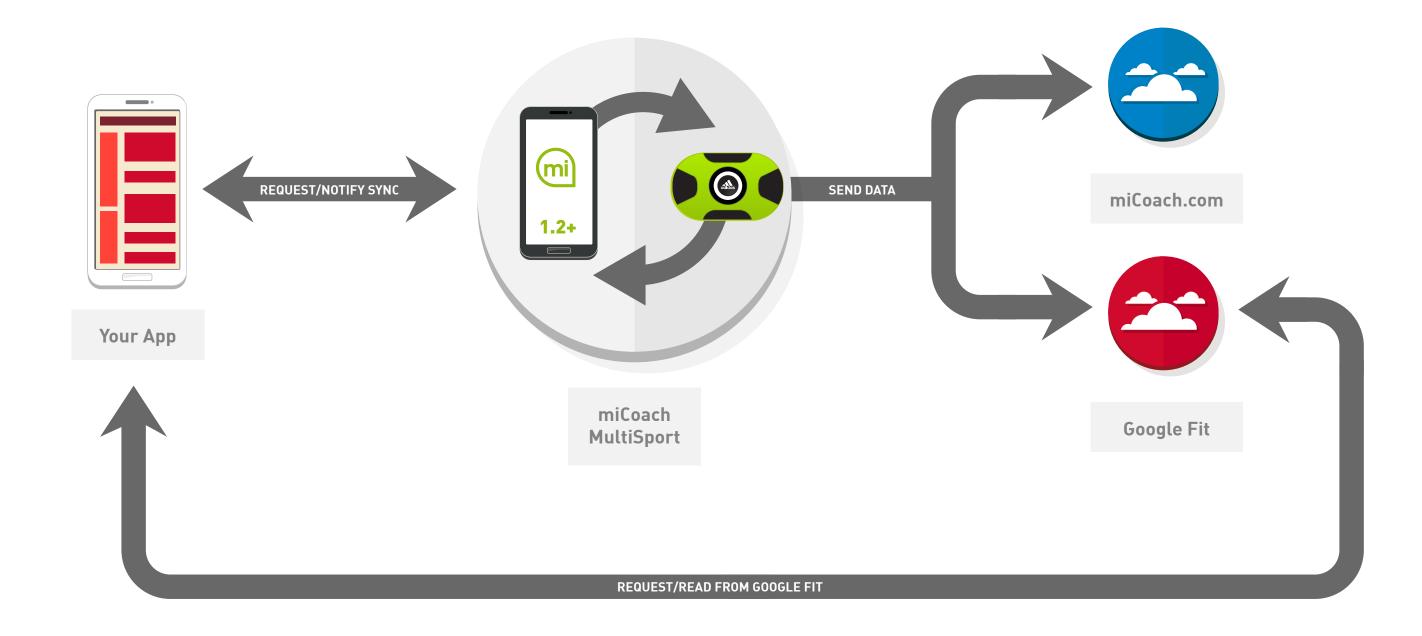


Google Fit documentation

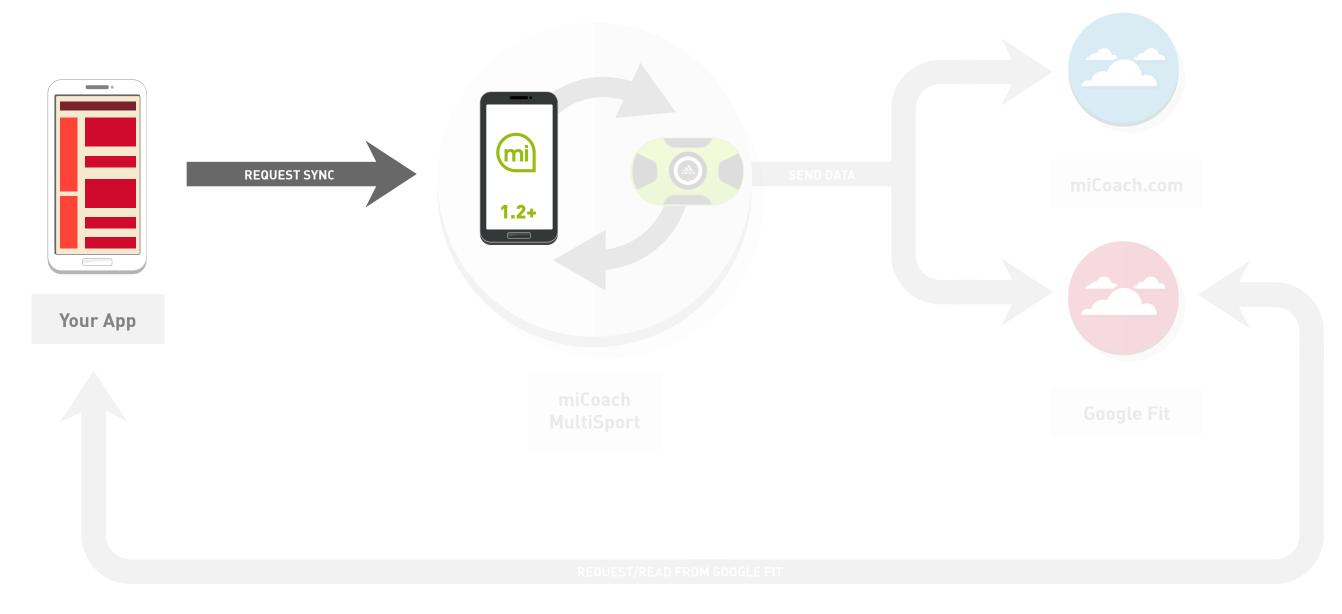


Android development device with Bluetooth LE and Android 4.3+



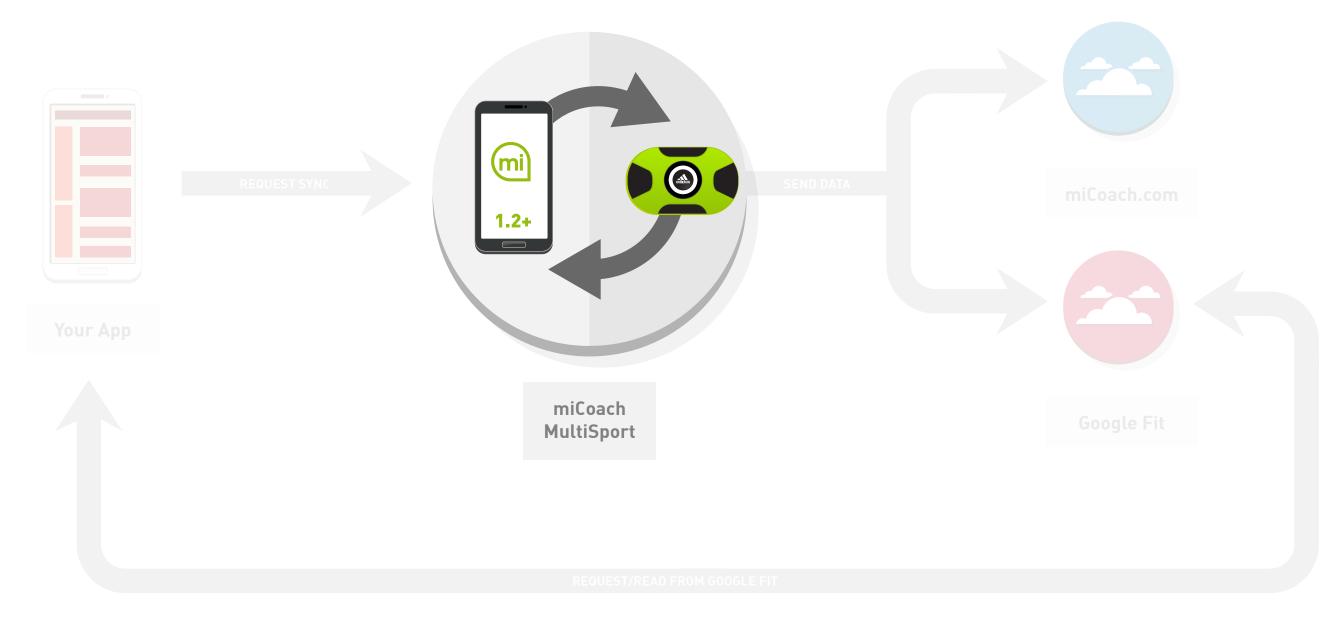






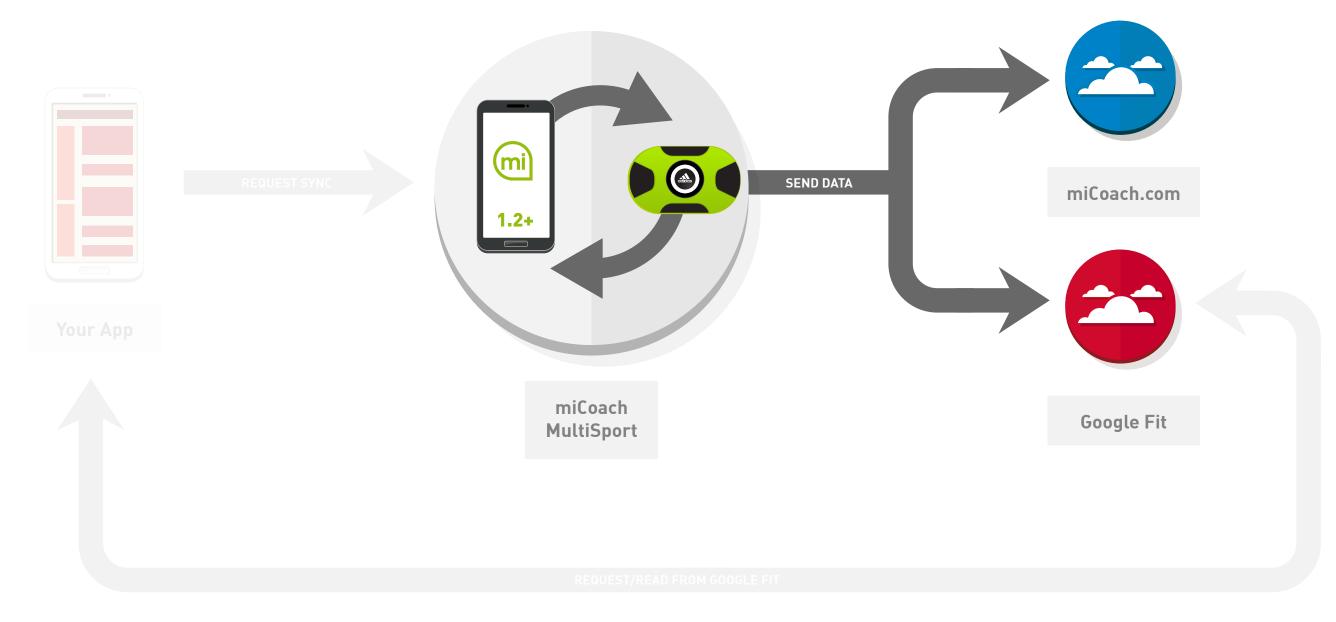
Your app requests a sync from miCoach MultiSport





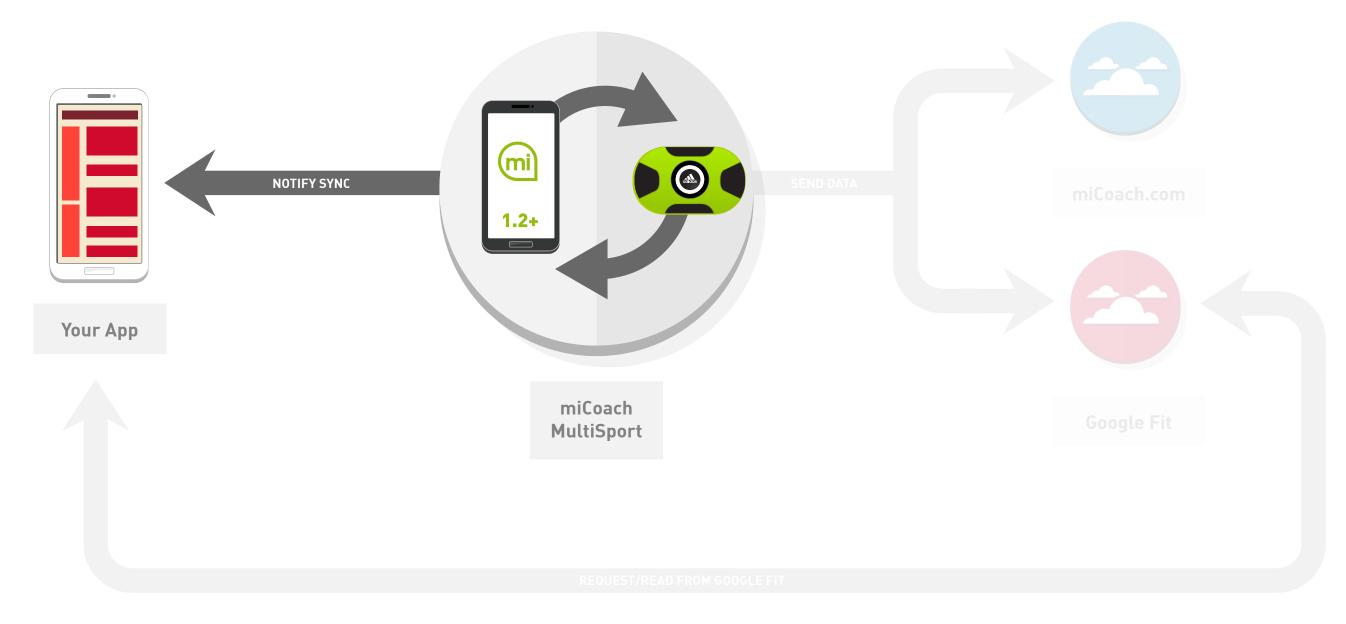
miCoach MultiSport retrieves the latest workout data from the paired adidas  $X\_CELL$  sensor





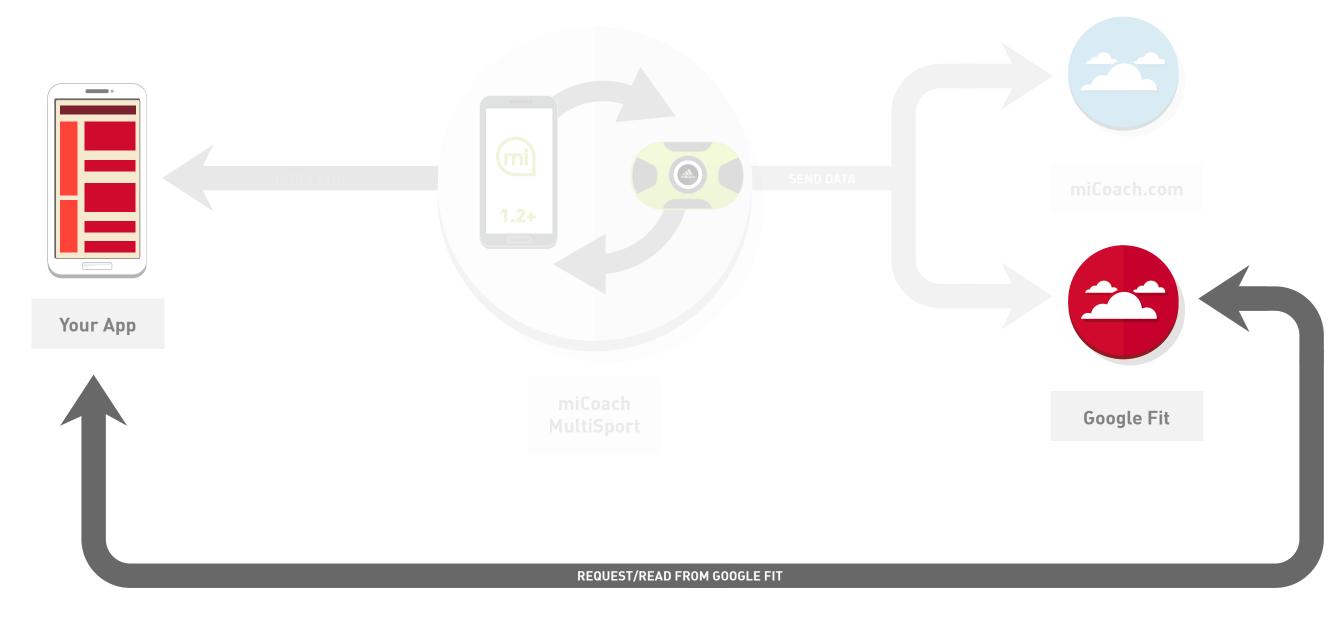
miCoach MultiSport syncs the data to miCoach.com and Google Fit





miCoach MultiSport notifies your app that the sync completed





Your app reads the workout data from Google Fit





# step 1: enable syncing



First, download the miCoach

MultiSport beta app, which you

will be able to access once you opt
in to your invitation to be a tester.

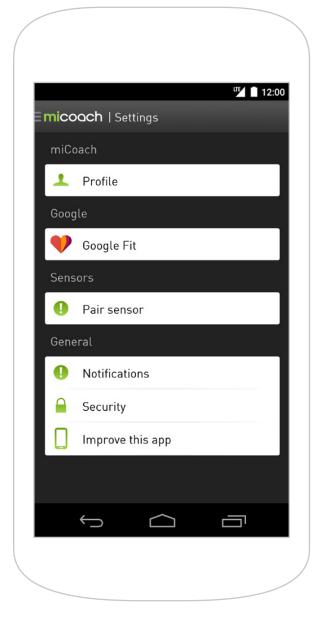


# step 1: enable syncing

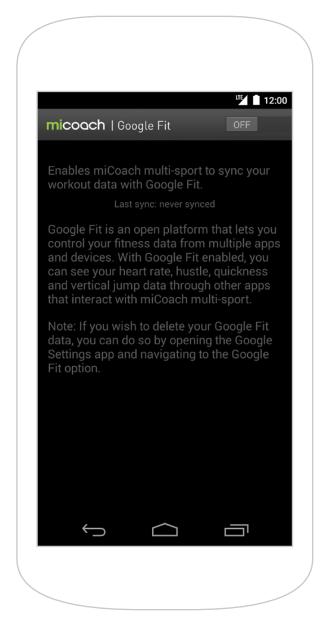
Log in or create an account with miCoach



Go to your Settings and tap "Google Fit"



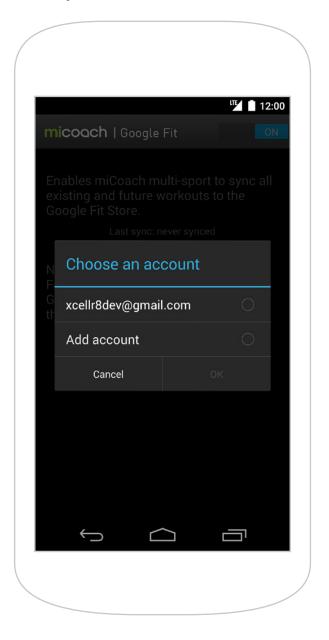
Tap the slider to turn syncing on



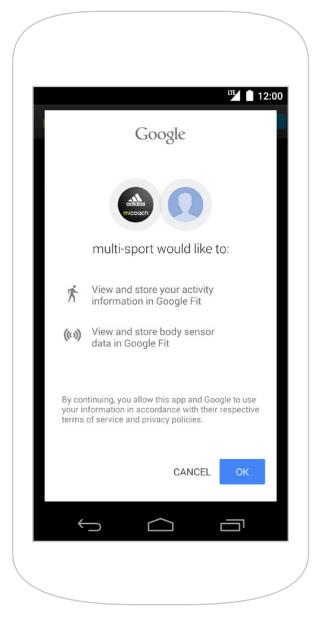


# step 1: enable syncing

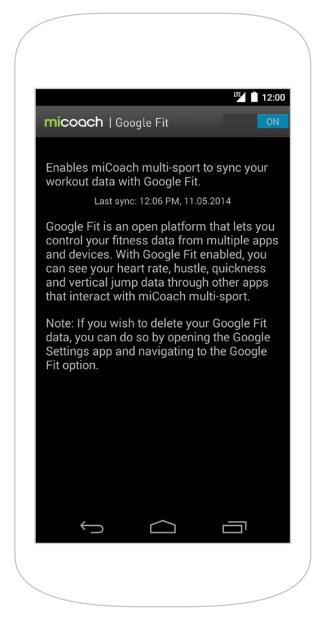
Choose the account you wish to sync with



5 Accept the terms



Your app should now indicate that syncing is turned on





# step 2: pair your sensor



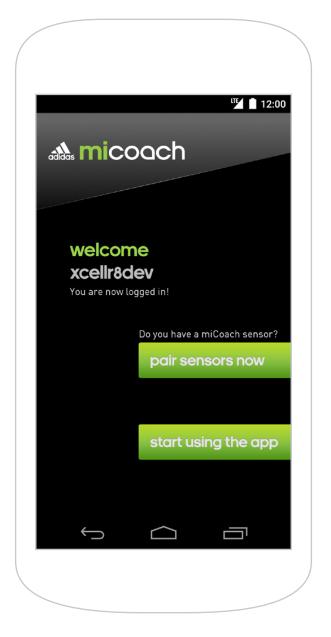
miCoach MultiSport pairs with your sensor via Bluetooth so ensure you have Bluetooth enabled on your device.

Additional information and troubleshooting can be found in the miCoach user manual.



# step 2: pair your sensor

Tap "pair sensors now" to begin pairing



Activate your X\_CELL by shortpressing the on/off button. You will hear an audible beep and see the lights flash once.



Tap "start scan"



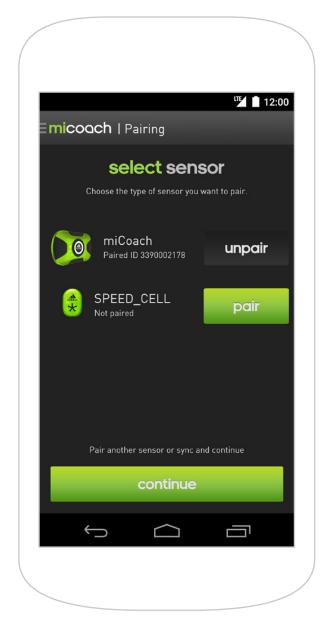


# step 2: pair your sensor

Once your sensor is detected, select it from the list, enter a name, and tap "pair"



miCoach MultiSport should now indicate that your sensor is paired







# step 1: enable google fit



Enable the Google Fit API for your project within the Google Developers

Console by following the instructions in the Google Fit getting started guide.

**Note:** For an example of a full implementation of a custom app, you can access the **sample app.** 



# step 2: add google play services



To utilize the Google Play services
APIs in your project, refer to
the Google Play services setup
instructions.





To request a sync from miCoach MultiSport, you will need to implement the following components into your project, outlined on the following pages.

- Installation Verification
- Sync Intent
- Results Capturing
- User Sync Interface



#### **Verify App Installation**

Before you can send an intent, your app will need to check whether miCoach MultiSport is installed on the user's device.

```
PackageManager pm = context.getPackageManager();
try {
    pm.getPackageInfo("com.adidas.micoach.x_cell", PackageManager.GET_ACTIVITIES);
    return true;
} catch (PackageManager.NameNotFoundException e) {
    return false;
}
```

If miCoach MultiSport is not installed on the device, you can send the user directly to the **Google Play Store** to install it.



#### Send a Sync Intent

Your app will need to send an intent to miCoach MultiSport.

```
Intent intent = new Intent("com.adidas.micoach.x_cell.sync");
startActivityForResult(intent, SYNC_REQUEST_CODE);
```



#### **Capture Results**

Implement onActivityForResult() in your Activity or Fragment to receive results from miCoach MultiSport.

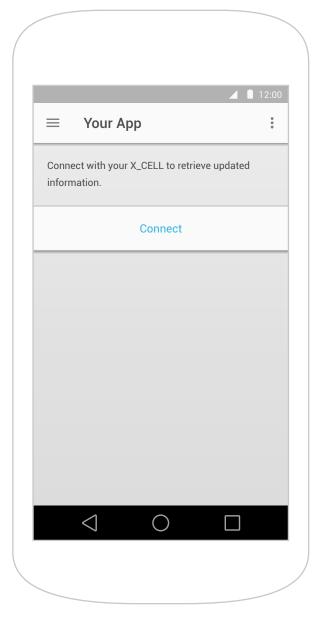
```
@Override
public void onActivityResult(int requestCode, int resultCode, Intent data) {
    if (ADIDAS MSA REQUEST_CODE != requestCode) {
        return;
    String message = null != data && data.hasExtra(ADIDAS_MSA_RESULT_EXTRA_MESSAGE)
        ? data.getStringExtra(ADIDAS MSA RESULT EXTRA MESSAGE)
        : null;
    if (message == null) {
        return;
    switch (resultCode) {
        case ADIDAS MSA RESULT SYNC OK: {
            Log.d(TAG, "Sync succeeded: " + message);
            // TODO: Read data from Google Fit.
            break;
        case ADIDAS MSA RESULT SYNC FAILED: {
            Log.d(TAG, "Sync failed: " + message);
            // TODO: Notify user of failure, retry, etc.
            break;
        case ADIDAS_MSA_RESULT_NOT_ENABLED: {
            Log.d(TAG, "Not authenticated: " + message);
            // TODO: Notify user to authenticate to Google Fit in miCoach MultiSport.
```



#### **Create a Sync Interface**

Once you have these components implemented, you will want to provide an interface for the user to initiate a sync within your app.

#### example





During the sync process, miCoach MultiSport sends the data from the adidas X\_CELL sensor to Google Fit. Your app must be equipped to handle the possible results outlined in the table.

result	description
-1	Workout data is available in Google Fit
1	Workout data could not be synced with Google Fit
2	User has not logged in to miCoach MultiSport or Google Fit integration is not enabled



# step 4: retrieve adidas workout data



Once your data is successfully synced, you can retrieve workout data from Google Fit. For example code on how to do this, please refer to the sample app.



# step 4: retrieve adidas workout data

- Connect to the Google Fit service, which is part of Google Play services.
- 2 Send a custom data type request to Google Fit to retrieve the custom adidas data types: jump height, hustle, quickness. For more information about these data types, reference the shareable data types.

**Note:** Heart rate is a DataType object built into the Google Fit API and doesn't require a custom data type request.

Send a session read request to Google Fit to retrieve the workout data for the authenticated account.



#### resources

Google Fit Competition Website g.co/FitDeveloperChallenge

Implementation Sample App github.com/adidasDigitalSports/MSA-GoogleFit

Google Fit Developer Guide developers.google.com/fit/android/get-started

Google Play Services Developer Guide developer.android.com/google/play-services/index.html

miCoach MultiSport app play.google.com/store/apps/details?id=com.adidas.micoach.x\_cell



