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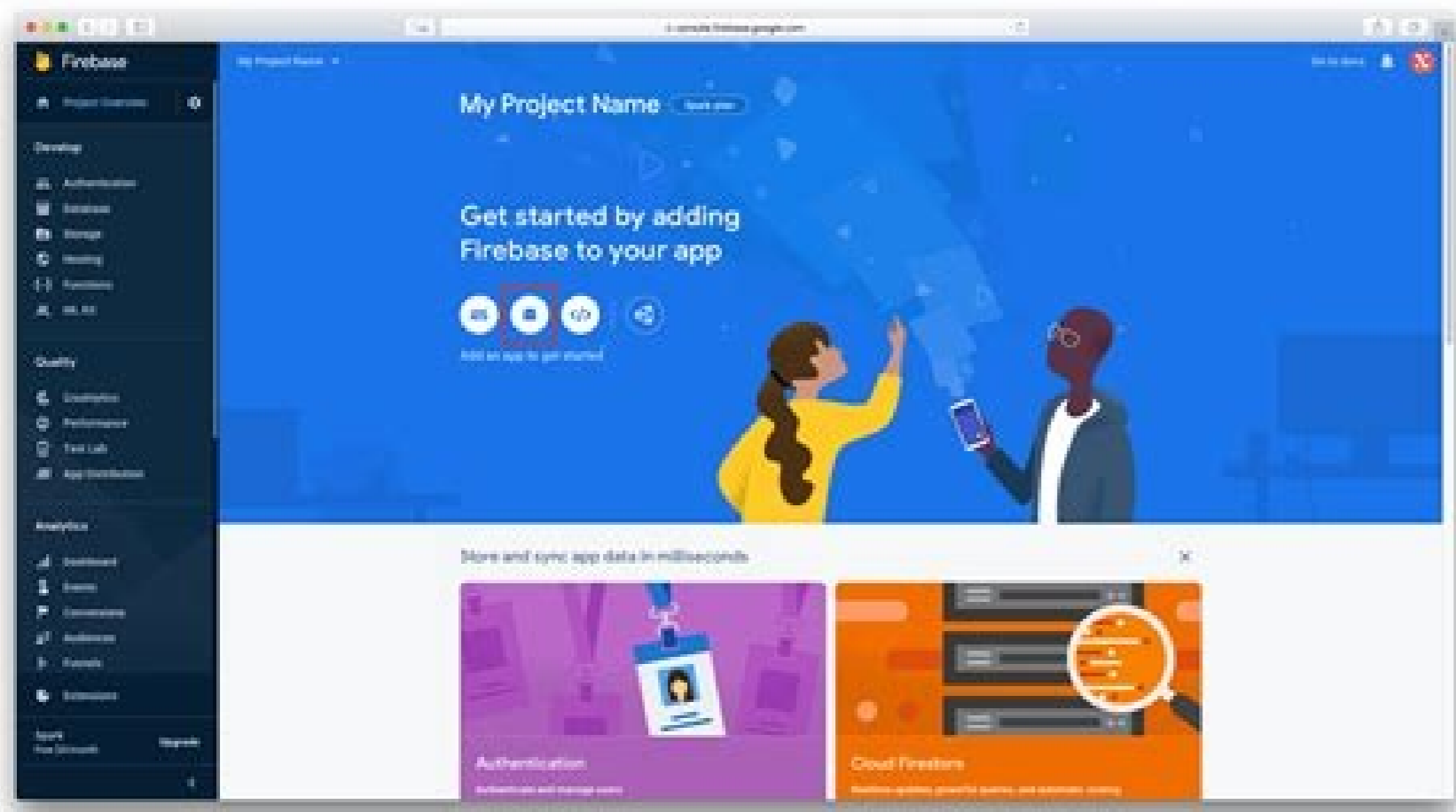




# 7 Firebase - 2017 Android Tutorial

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## Database: Retrieve Multiple data to Android App



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Firebase database tutorial for android. Create android app with firebase. How to connect android to firebase. Complete firebase tutorial for android app development.

Firestore is a serverless backend as a service (BaaS) solution from Google. What that means is, with Firestore, you worry less about building a backend and focus more on building your mobile app. To further explain what Firestore is, let's look at some of the services it provides. With Firestore, you can add features like user authentication, database, file storage, notifications, and more to your app without managing a server. In this post, we'll learn about how Firestore is useful and why a Kotlin developer would use it. In addition to that, we'll take a look at some potential use cases. Last but not least, we'll walk through the steps to build a Kotlin app for one of the use cases and learn how to test the app we build.

**Why Firestore is Useful With Kotlin** Earlier, we mentioned that Firestore makes building mobile apps easier and faster. And that is because Firestore removes the stress of managing a backend. Firestore is also very compatible with Kotlin. Hence, you get to enjoy all the features of Firestore with ease while writing Kotlin apps. Kotlin is one of several programming languages and platforms officially supported by Firestore. As such, Firestore offers tons of resources for learning via the official documentation. In addition to that, because the combination of Firestore and Kotlin is very popular, you can find answers to challenging situations quickly with the help of a thriving developer community. If those are not enough reasons, using Firestore with Kotlin lets you quickly test your idea as an app. In fact, you can turn an idea into an app in just one weekend using Firestore and Kotlin. In the next section, we'll talk more about use cases how you can apply Firestore to your app or idea.

**Potential Use Cases for Firestore in a Kotlin App** Here are three potential use cases for Firestore in an app.

- 1. Building a Chat App:** You can add a chat feature to your app with the help of Firestore Cloud Messaging (FCM). You can also use Firestore Authentication for user identification.
- 2. Adding Multiple Signing in Options to an App:** With Firestore, you can allow users to sign in to your app using multiple channels. Firestore Authentication supports authentication via email and password, phone number, Google account, Facebook, Twitter, and more.
- 3. Adding a Photo Upload Feature in App:** If you wish to allow users of your app to upload a profile photo, the Firestore file storage service has you covered.
- 4. Storing Data Online With Real-Time Update and Offline Support:** Firestore is ideal for storing data that change often, such as a list of recent weather data. Realtime Database and Firestore support real-time sync of data and have offline support.

**Adding Firestore to Your App** At this point, we know what Firestore is and have looked at some use cases. Now, let's see Firestore and Kotlin in action by building an actual app using both. We'll be building a chat app (use case 1) that includes a user authentication system (use case 2).

**Prerequisites** Before you continue, make sure to have the following:

- Android Studio (Version 4.0+)
- An emulator or physical Android device
- A Google account (Gmail)

**Step 1: Creating a New Android Studio Project** First, we'll need an Android Studio project. You can create a new project or skip this step and add Firestore to an existing project. To create a new project, open Android Studio and navigate to File -> New -> New Project. Follow the new project wizard to complete the project creation process. In the new project wizard, select Empty Activity as the project template and Kotlin as the programming language.

**Step 2: Create Firestore Project** Now that we have an Android project, let's create a Firestore project. Go to Android Studio, and navigate to Tools -> Firebase. This launches the Firebase Assistant pane. In the Firebase Assistant pane, select Authentication and then click on Connect to Firestore. The Firestore console will launch in your default browser. From the console homepage, click on Add new or select an existing project. Follow the new project setup wizard in the Firestore console to complete the process. Once you are done, return to Android Studio to continue the project setup. **TIP:** If alternatively, you prefer to connect your Android Studio project to Firestore manually, you can follow the official documentation here in place of this step.

**Step 3: Enable Authentication** Back in Android studio and in the Firebase Assistant Pane, click on the Add the Firebase Authentication SDK to your app button. This adds the necessary Firestore plugin to your project. Accept the build.gradle edit confirmation dialog to continue. Next, open in your web browser and select your project. Then, click on Authentication from the left side menu to open the authentication section of your project. Once you are in the authentication section, click on Get Started to reveal the authentication options. Navigate to the Sign-in method tab then enable the email/password option.

**Step 4: Adding User Authentication Screens** Now that we have Firestore Authentication enabled for our app, let's set up user login and signup screens. Return to Android Studio. Then, create two new Empty Activities with the following names: RegistrationActivity/LoginActivity. Here's how to create a new activity: Right-click on the main project package name, then navigate to New-> Activity -> Empty Activity. Enter one of the activity names and hit Finish. After both activities are created, we'll add two EditText views and a Button to the activity\_registration.xml layout file (located in the res-> layout directory). To do that, open the activity\_registration.xml file and update the code to the following:

**Step 4: Adding all the required views to the registration and login screens.**

**Step 5: Connecting the Screens Together** Now that we have all the screens we need for our app, let's connect them together. Start by deleting the current content of activity\_main.xml and replacing it with the following code:

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