

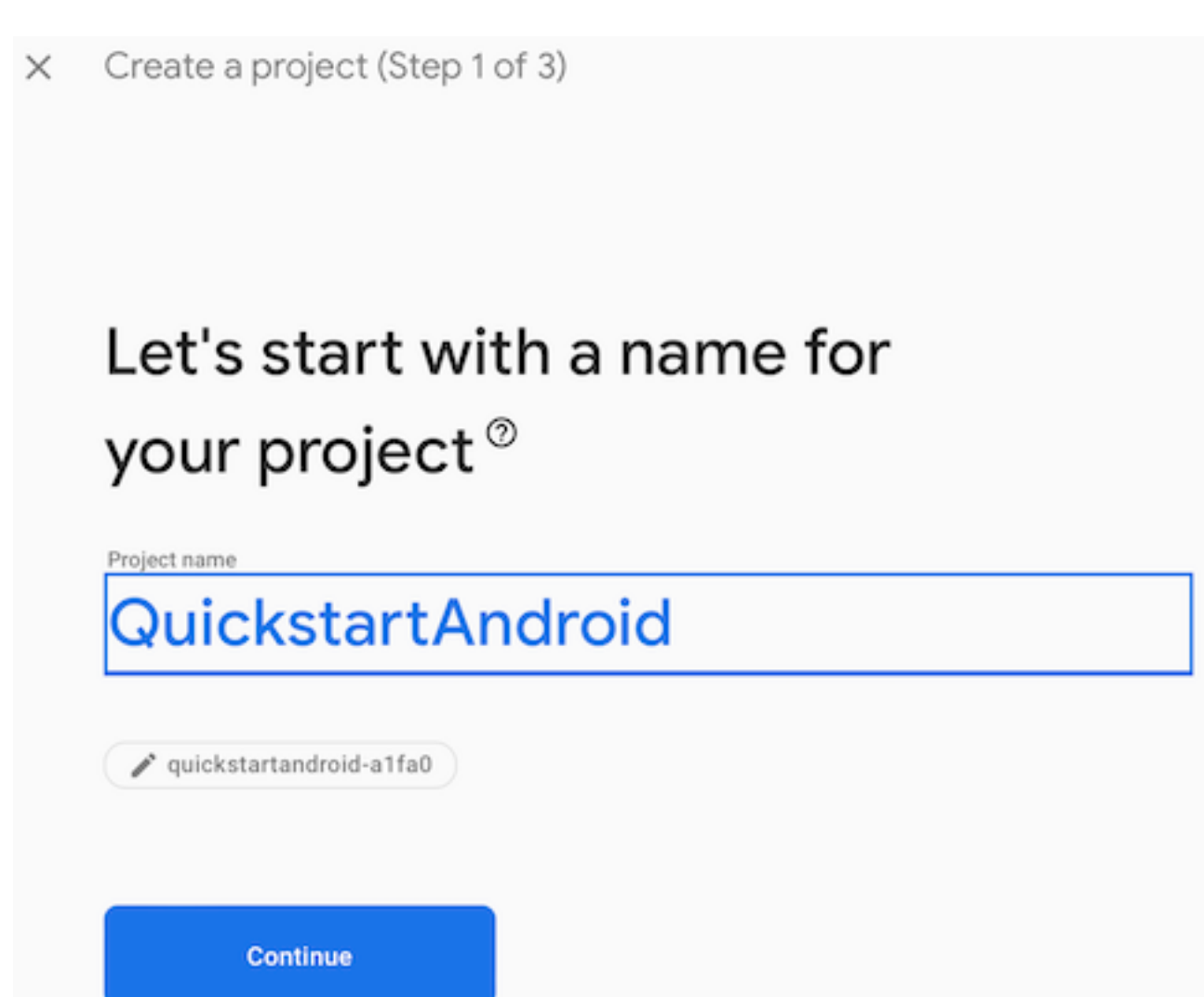
# Setup a Firebase project tutorial (step by step) for Android (Java)

**What is Firebase ?** *Firebase is a set of backend cloud computing services and application development platforms provided by Google. It hosts databases, services, authentication, and integration for a variety of applications, including Android, iOS, JavaScript, Node.js, Java, Unity, PHP, and C++.* (source: Wikipedia).

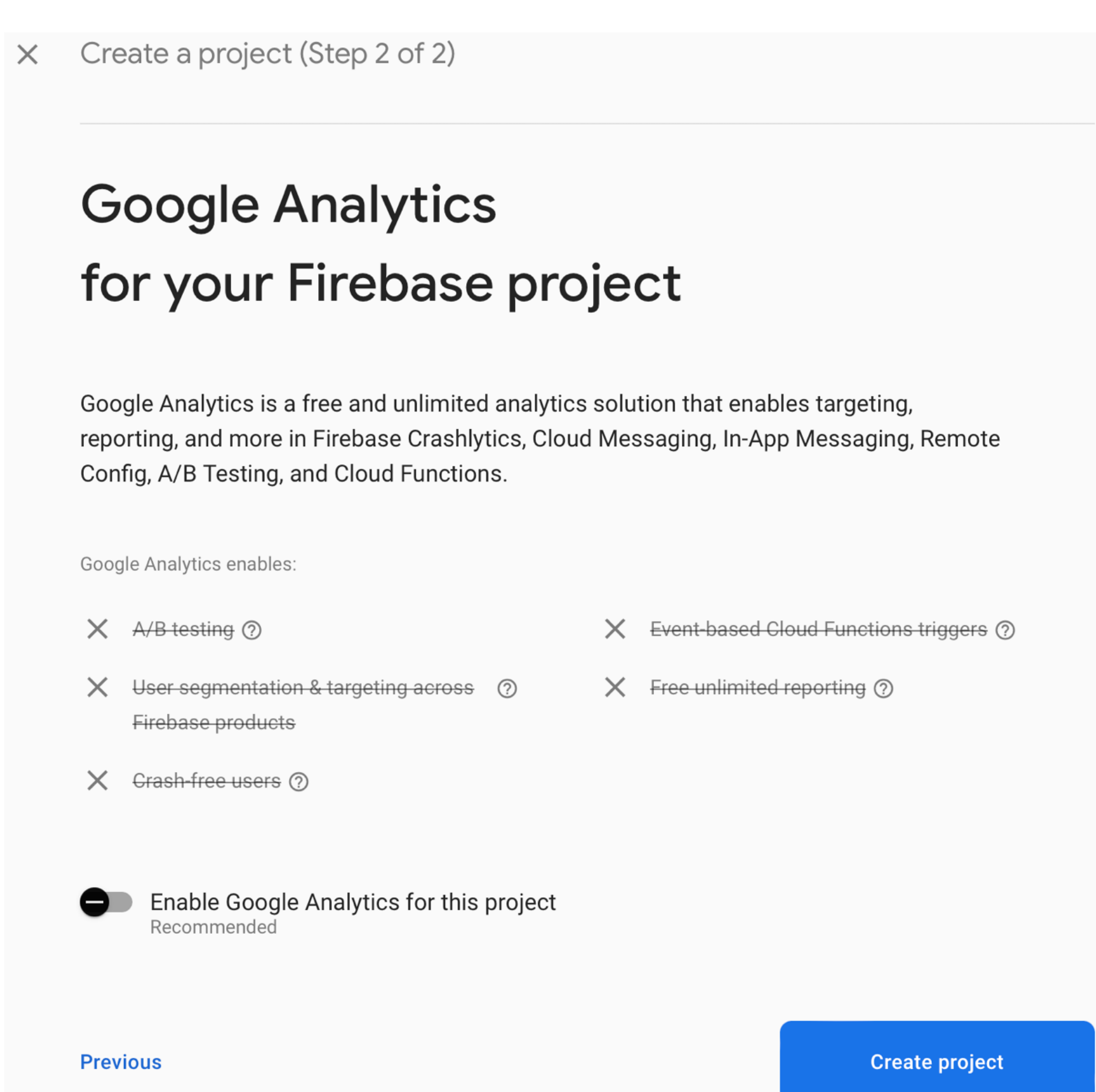
This tutorial is about setting up the Firebase project itself, but not a product like “Authentication” or “Database”—see the tutorials for these products (links at the end of this article).

A note regarding the necessary Google account: Please use a second Google account for your Firebase setup(s) and not your regular Google (mail) account. This is because to the fact that we should separate developing and working environments.

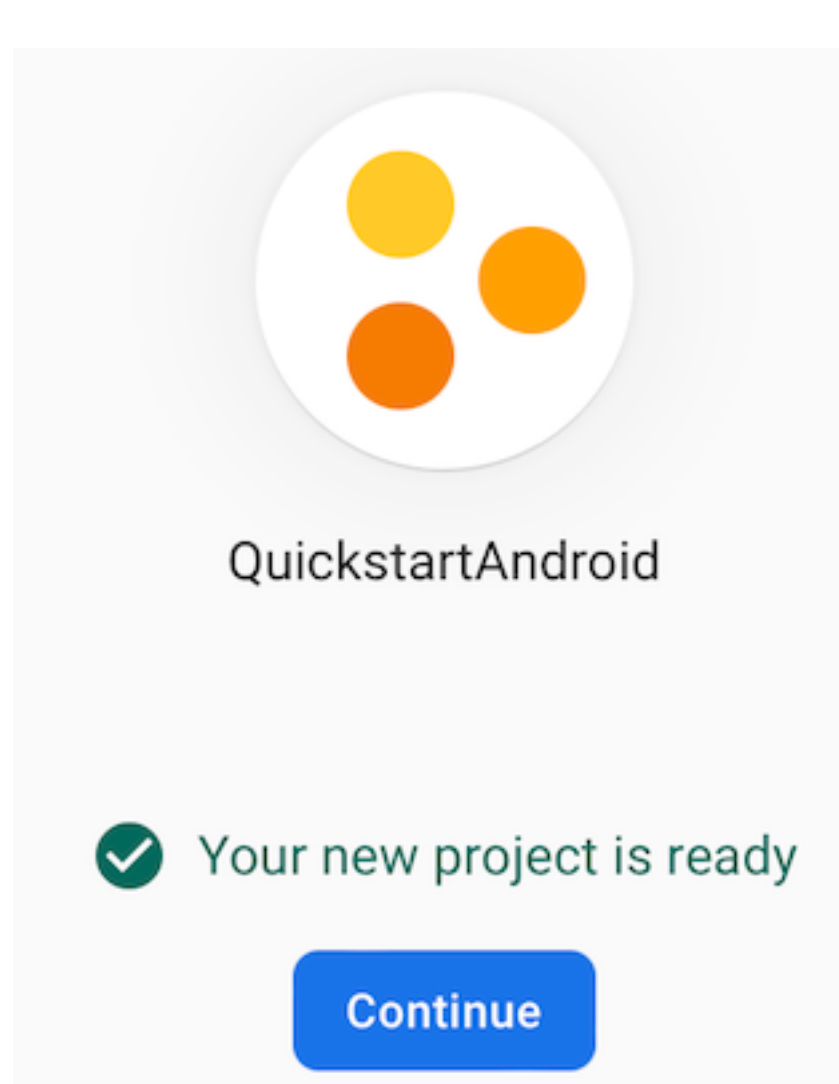
We use the link <https://firebase.google.com/> to login to Firebase and click on “Go to console”, then click on “Add project” button:



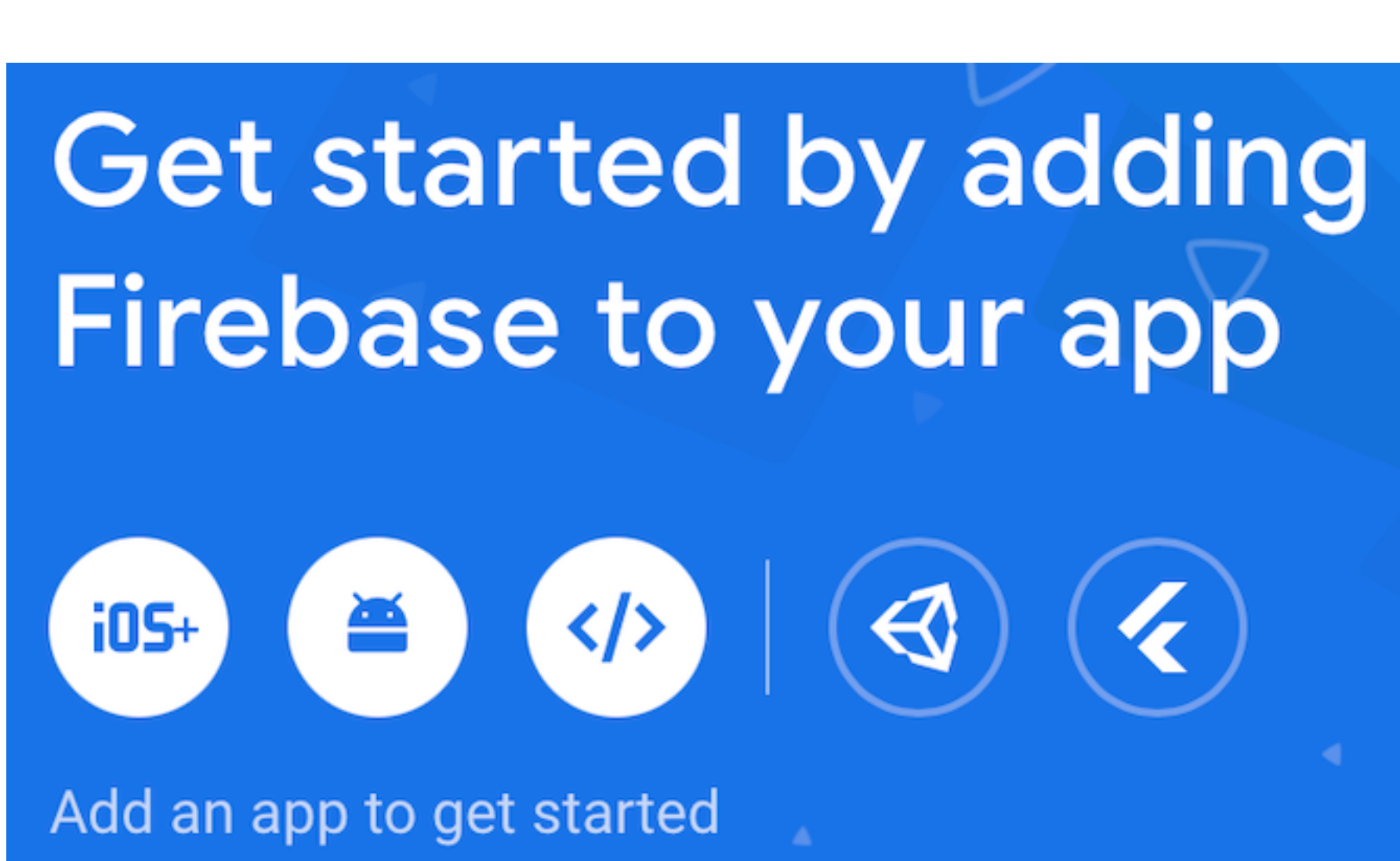
Choose a Project name that is identical to your app name; that helps you to identify your Firebase project later (when you created some Firebase projects this is helpful in finding the matching app). Press “Continue”:



I disabled Google Analytics in my projects so I don't know what additional setup steps are required when enabling this feature. Click on “Create project”:



It will take some seconds but then you receive the message “Your new project is ready”. But we are not ready yet, because the project has no connection to a real app. As we are talking about apps on Android devices we add Firebase to our app—click on the Android icon (the second left one):



For this step we need to retrieve 2 information about our app and our development environment.

The first information is the Android package name—go to Android Studio, open your app, open your build.gradle (module :app) file and copy the package name from “defaultConfig” section in “applicationId” (in my example it is “com.firebase.quickstart.auth”).

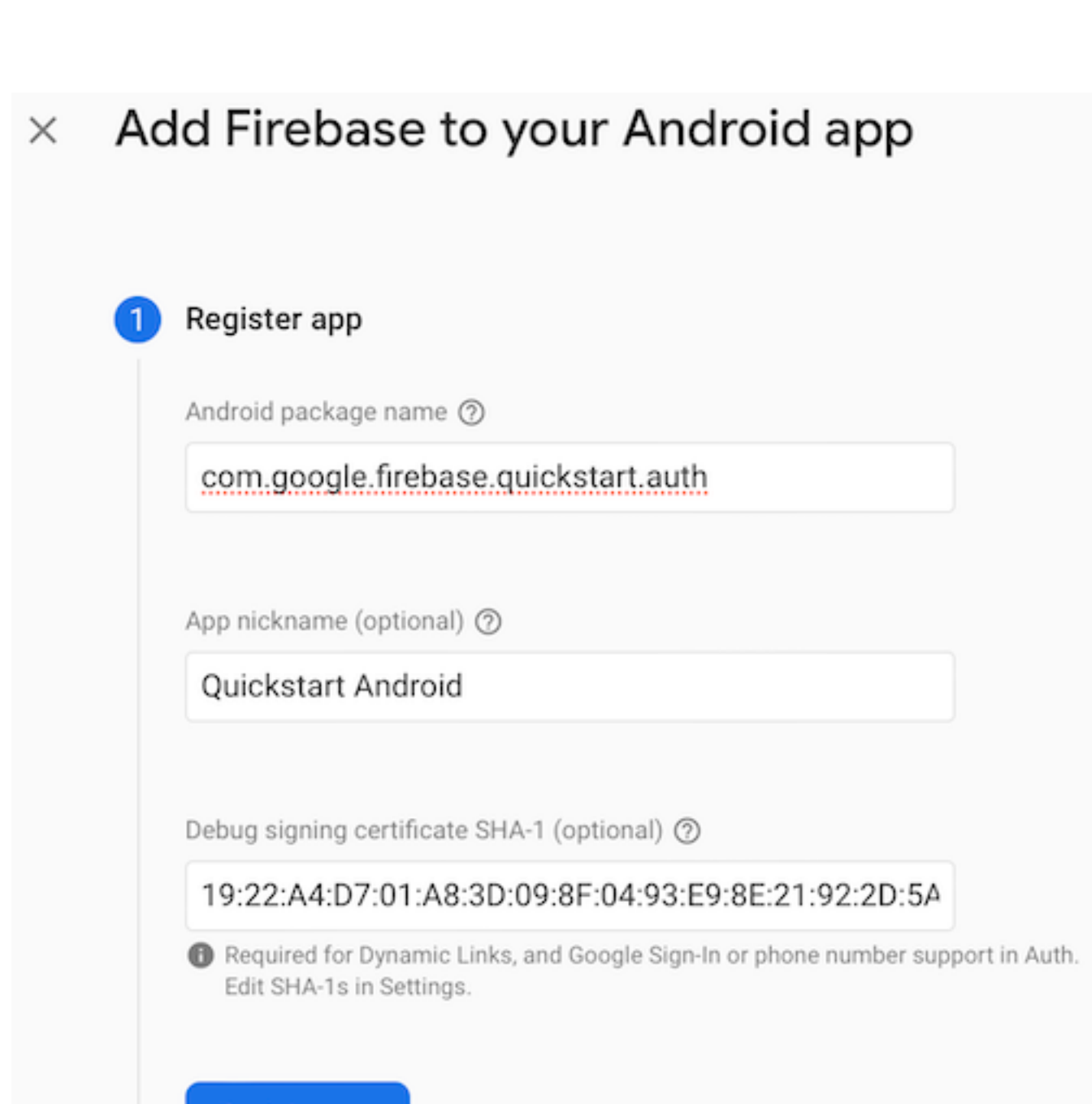
The second information is an app nickname—just use your app name or Firebase project name.

The third information is a little bit tricky—you need to get the “Debug signing certificate SHA-1”. It is names as optional, but later (in the Setup Authentication tutorial) it is necessary for Google Sign-in, so it is a good idea to retrieve the data and enter them. In most tutorials there are a lot of ways shown to get the data but not the one I’m presenting here. I’m using a Gradle report called “**signingReport**”. Click on the Gradle tab in Android Studio:

Type in “signingReport” and press “Enter”



Type in “signingReport” and press “Enter”



Article series about Firebase:

1. Setup a Firebase project
2. Setup Firebase Authentication
3. Setup Firebase Real Time Database
4. Setup Firestore Real Time Database
5. Setup Firebase Storage
6. Setup Firebase Cloud Messaging (send push notifications)