

Setting Up Push Notifications For Flutter App



Requirements

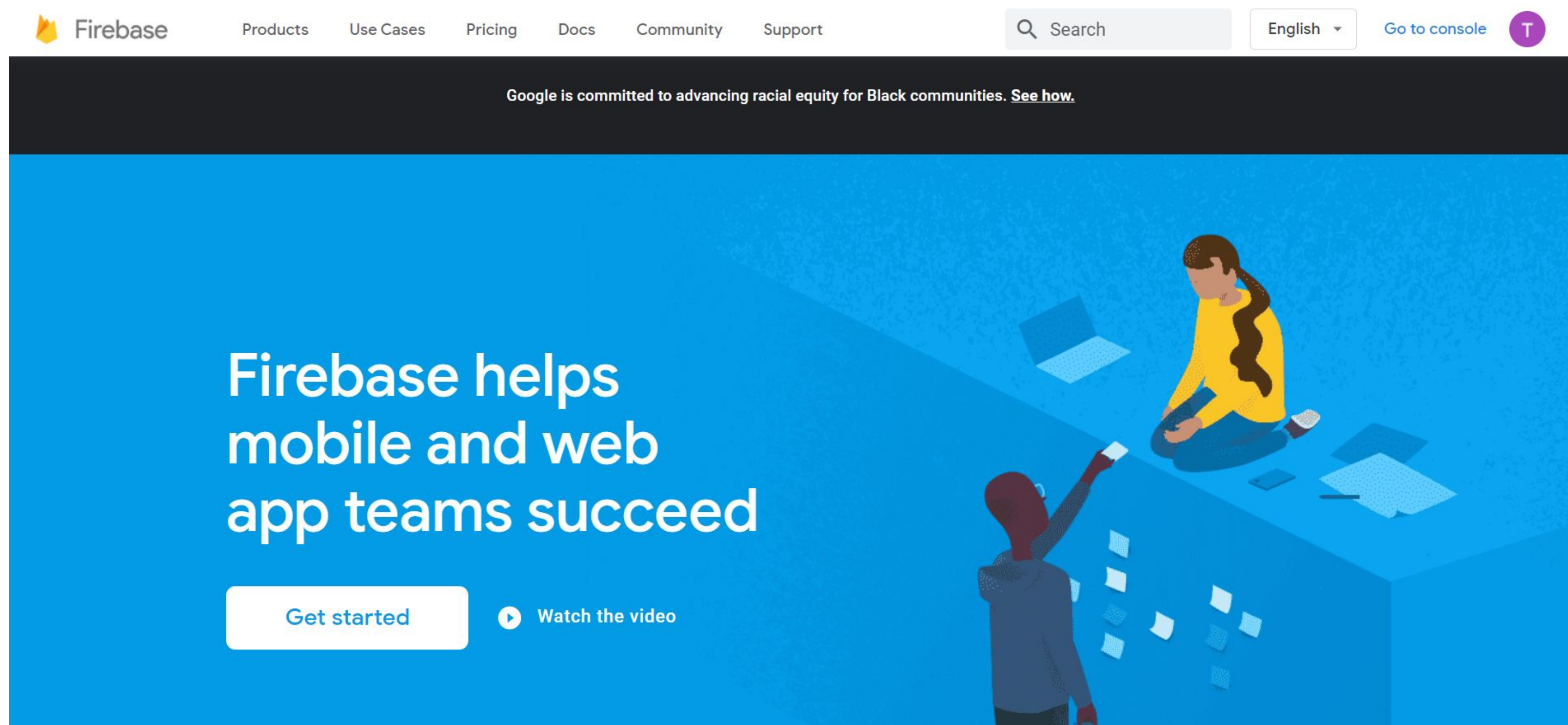
- Imported flutter project on system
- Google Firebase Account
- For Android:
 - A device or emulator with Google Play services installed.
 - Android Studio.
- For iOS:
 - XCode
 - An iOS device such as an iPhone/iPad
 - iOS Push Certificate

Before moving further it is assumed that you have successfully imported the flutter project on your system and also created a Google firebase account.



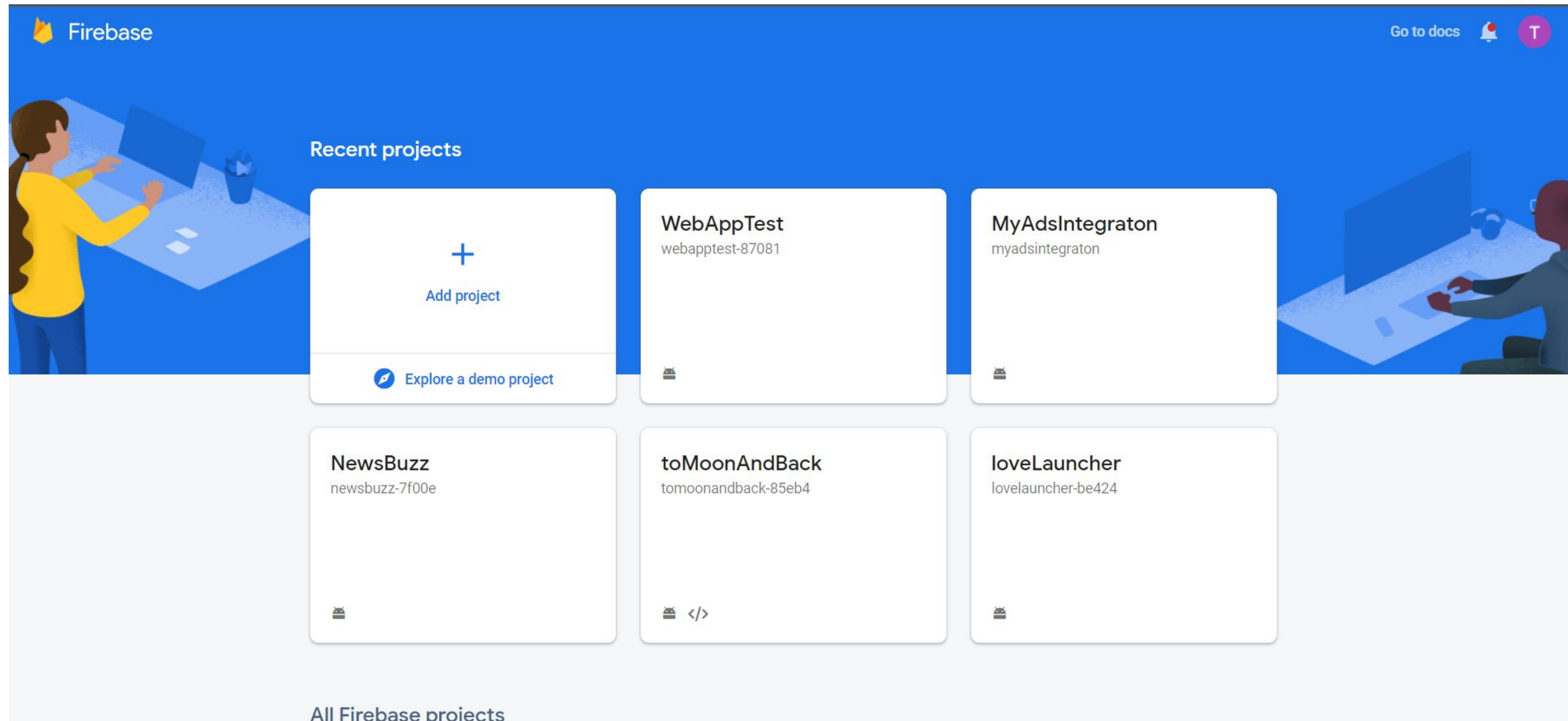
Step - 1

Open up the google firebase official website after creating account and click on "Get Started", a big white coloured button in front of you.



Step - 2

Firebase console window will appear in front of you in here click on "Add Project" and wait till the loading finishes.



Step - 3

Now, you have to create a firebase project by going through 3 simple steps. First step is to give a name to your firebase project (These all steps are required).

×

Create a project(Step 1 of 3)

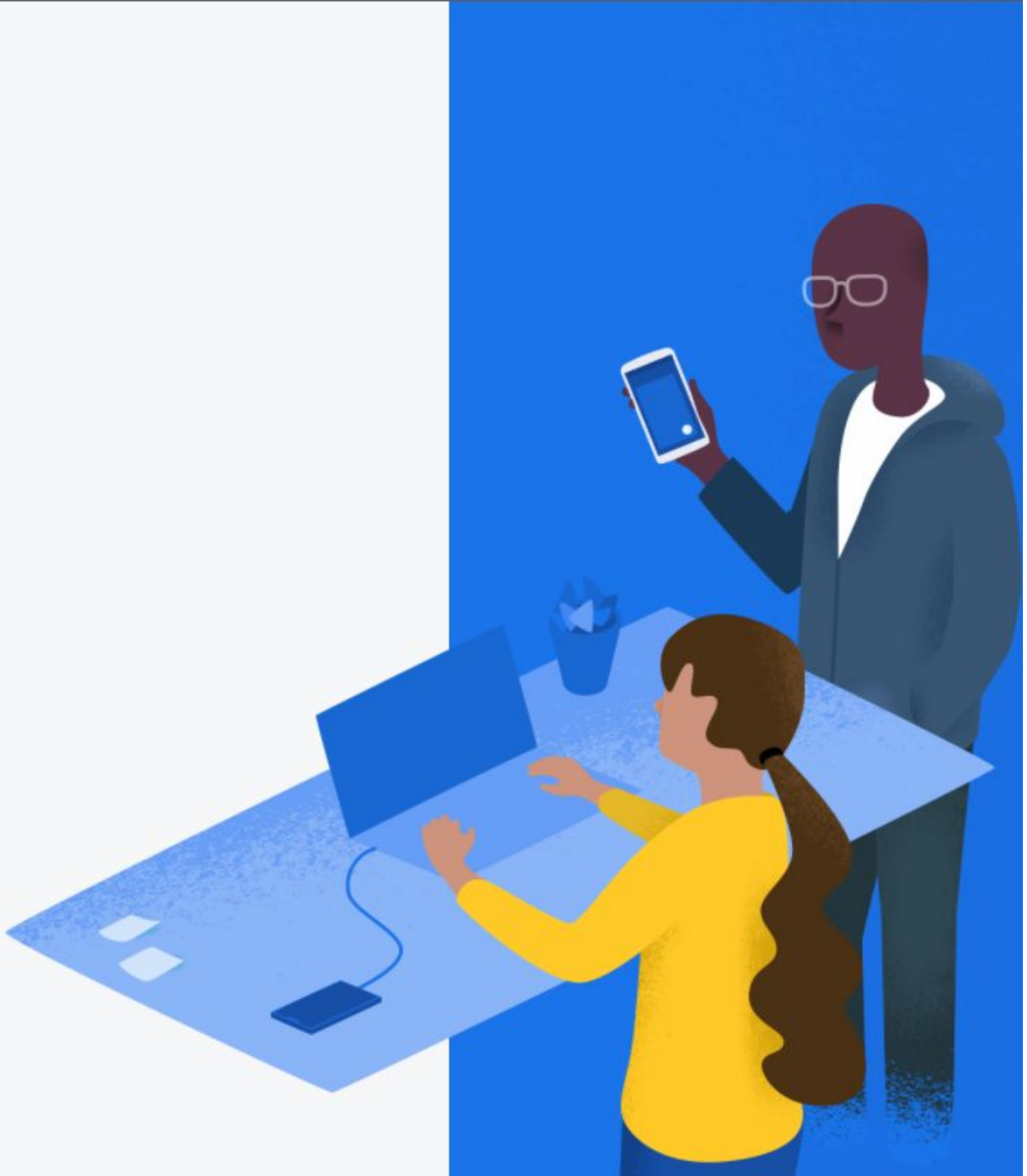
Let's start with a name for
your project[?]

Enter your project name

! Project name is required

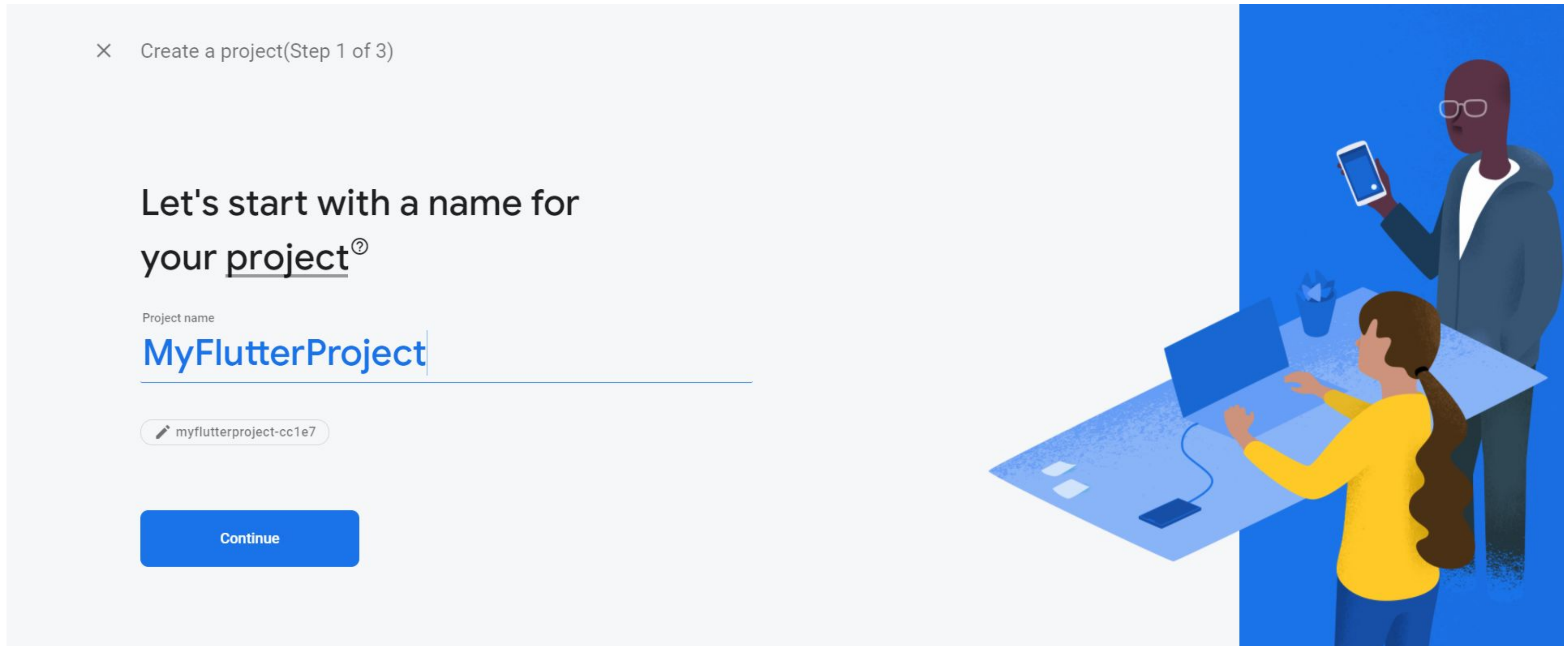
my-awesome-project-id

Continue



Step - 4

You can give it any name you want I'm simply going to give it "MyFlutterProject" name. It's time to move on to second step.



Step - 5

In second step you have to select the name of the firebase account, just click on the dropdown that containing text "Select an account".

× Create a project(Step 3 of 3)

Configure Google Analytics

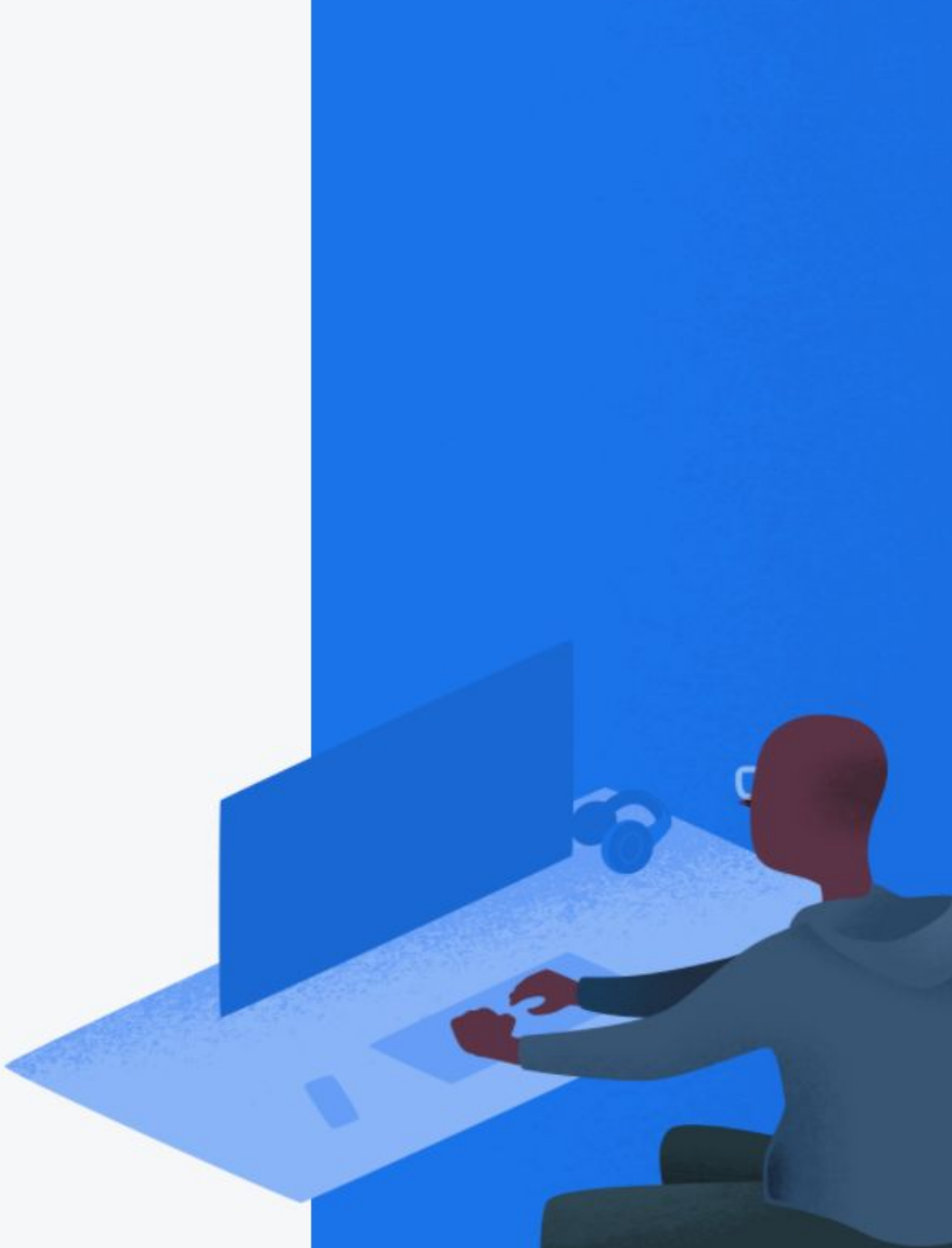
Choose or create a Google Analytics account ?

Select an account ▼

Upon project creation, a new Google Analytics property will be created in your chosen Google Analytics account and linked to your Firebase project. This link will enable data flow between the products. Data exported from your Google Analytics property into Firebase is subject to the Firebase terms of service, while Firebase data imported into Google Analytics is subject to the Google Analytics terms of service. [Learn more.](#)

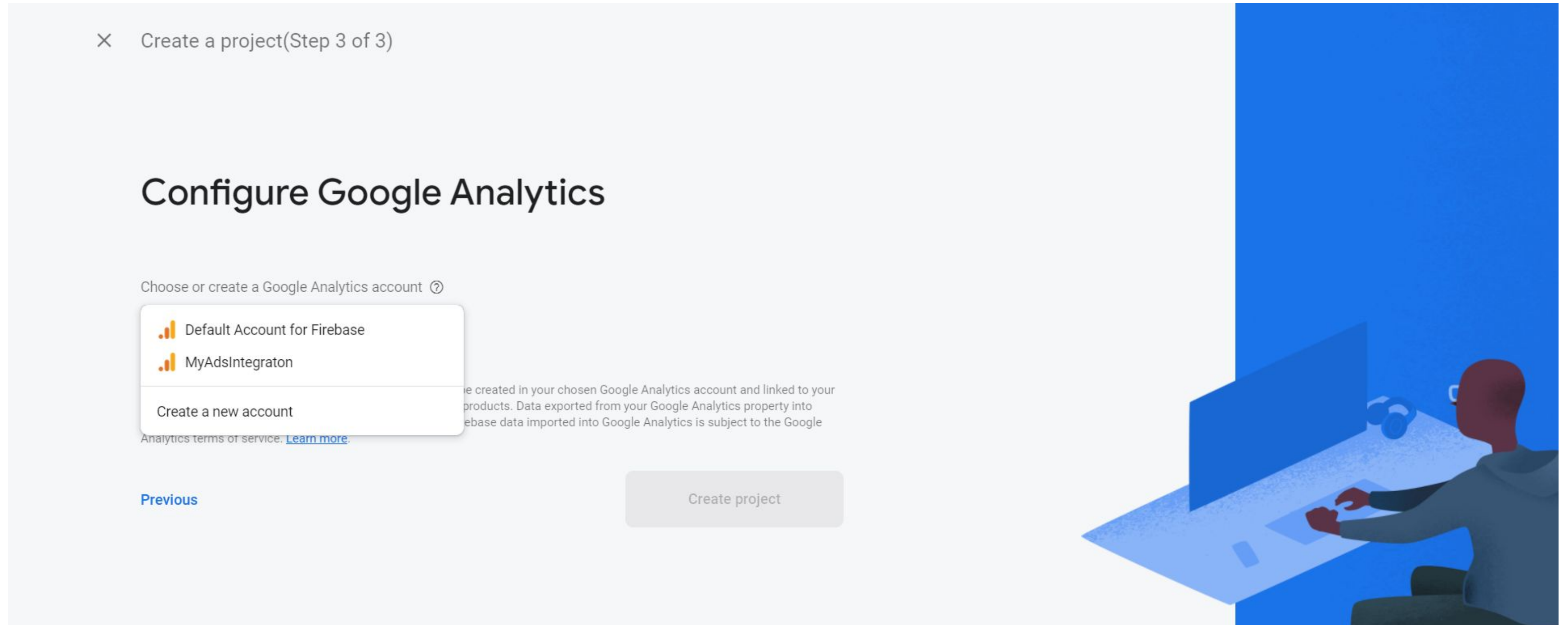
[Previous](#)

Create project



Step - 6

List of accounts will appear in front of you, select the "Default Account for Firebase".




Step - 7


After selecting account click on create project, blue colored button on the screen.

× Create a project(Step 3 of 3)

Configure Google Analytics

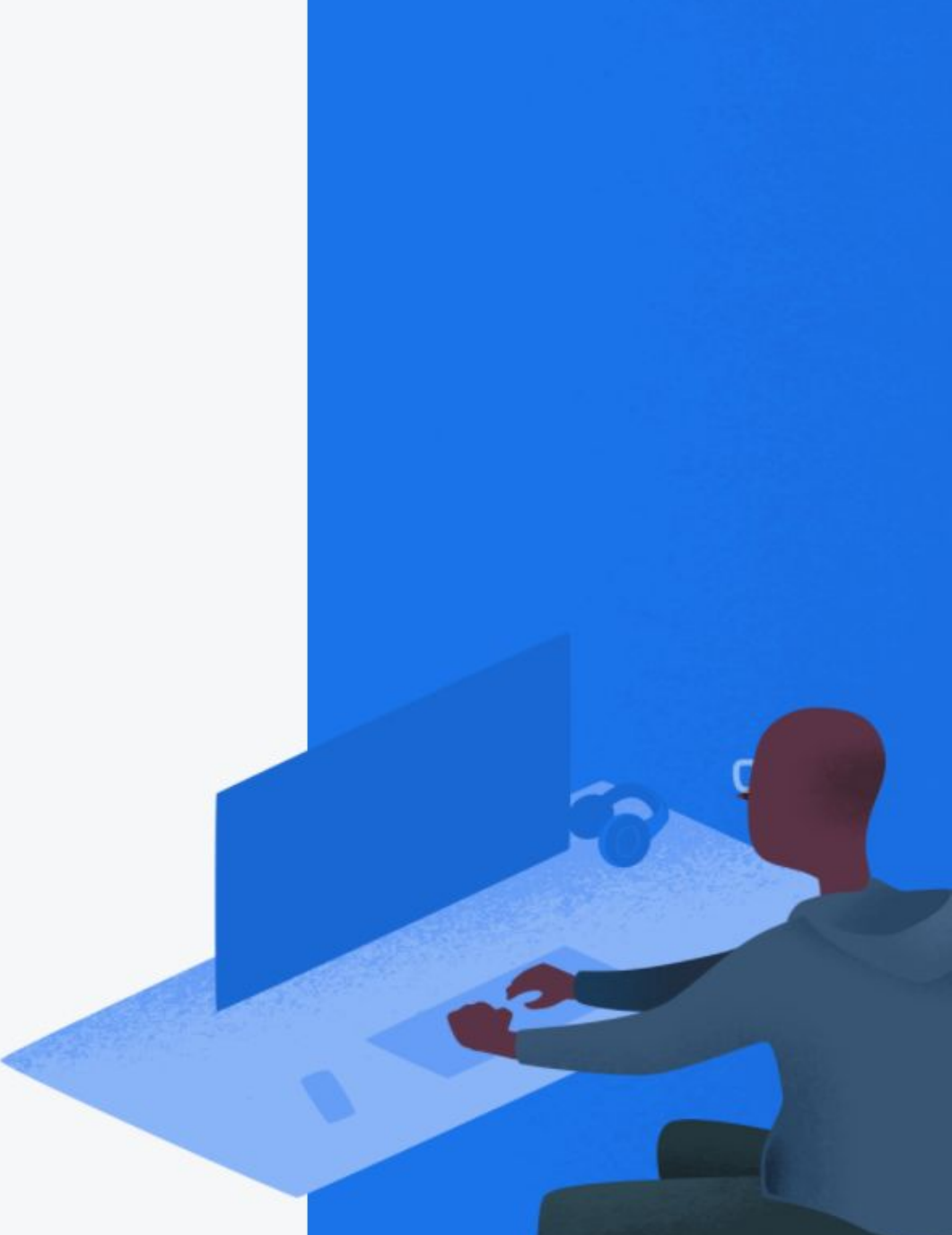
Choose or create a Google Analytics account ?

 Default Account for Firebase ▼

Automatically create a new property in this account 

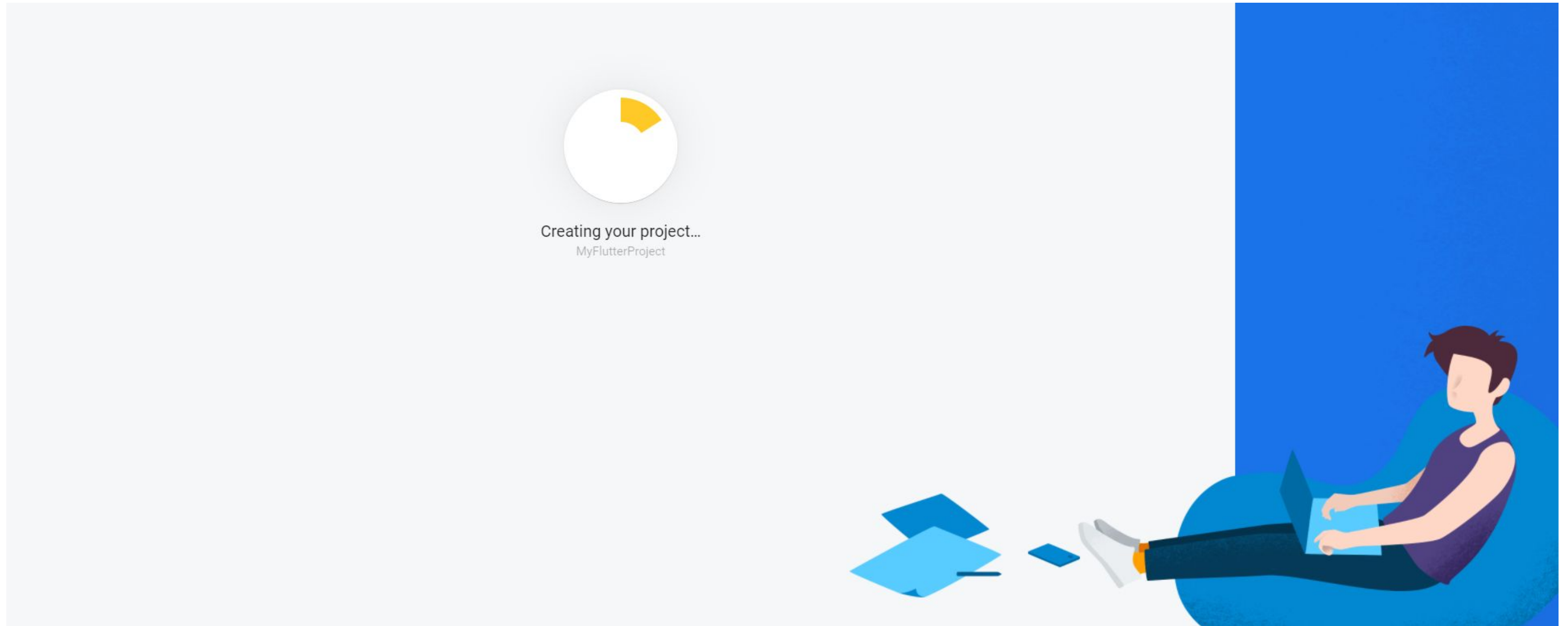
Upon project creation, a new Google Analytics property will be created in your chosen Google Analytics account and linked to your Firebase project. This link will enable data flow between the products. Data exported from your Google Analytics property into Firebase is subject to the Firebase terms of service, while Firebase data imported into Google Analytics is subject to the Google Analytics terms of service. [Learn more.](#)

[Previous](#)[Create project](#)



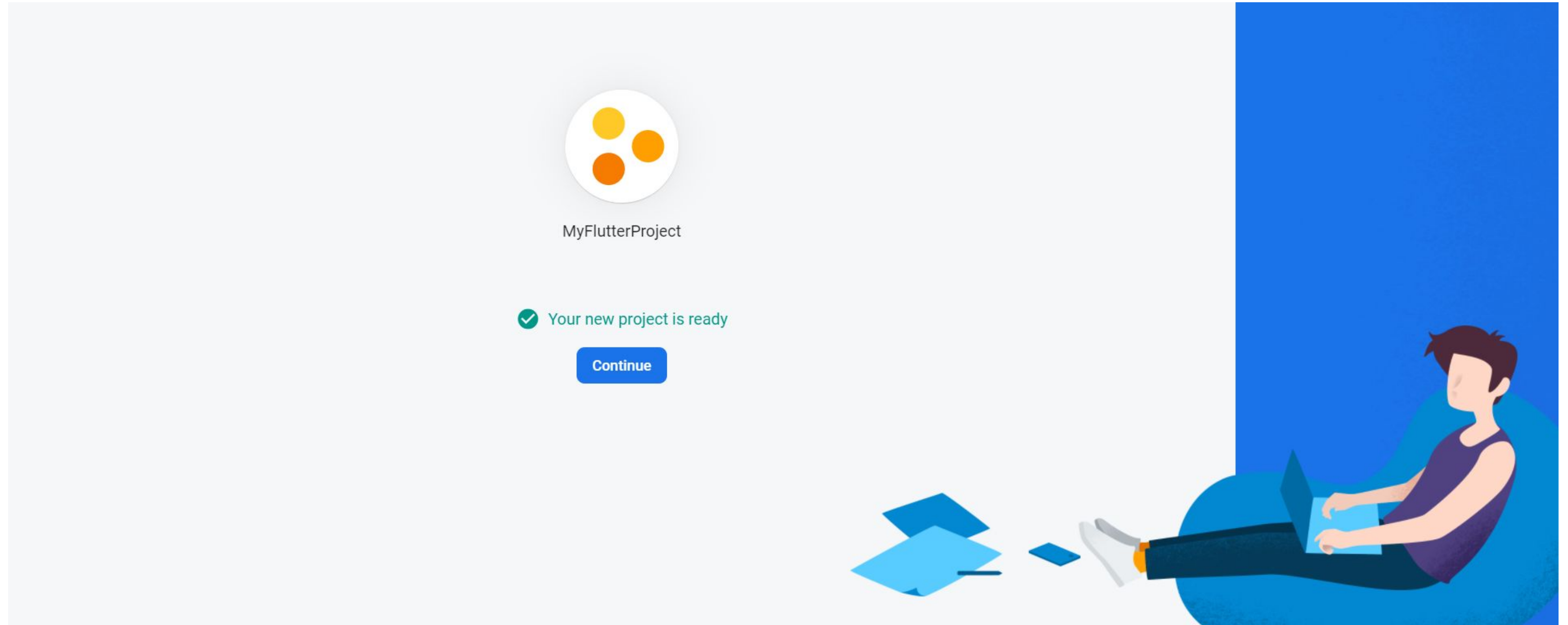
Step - 8

Hurrah, we are on the last of creating firebase project. just wait for 2-3 min. while fire builds our project. Don't turn off internet during this process.



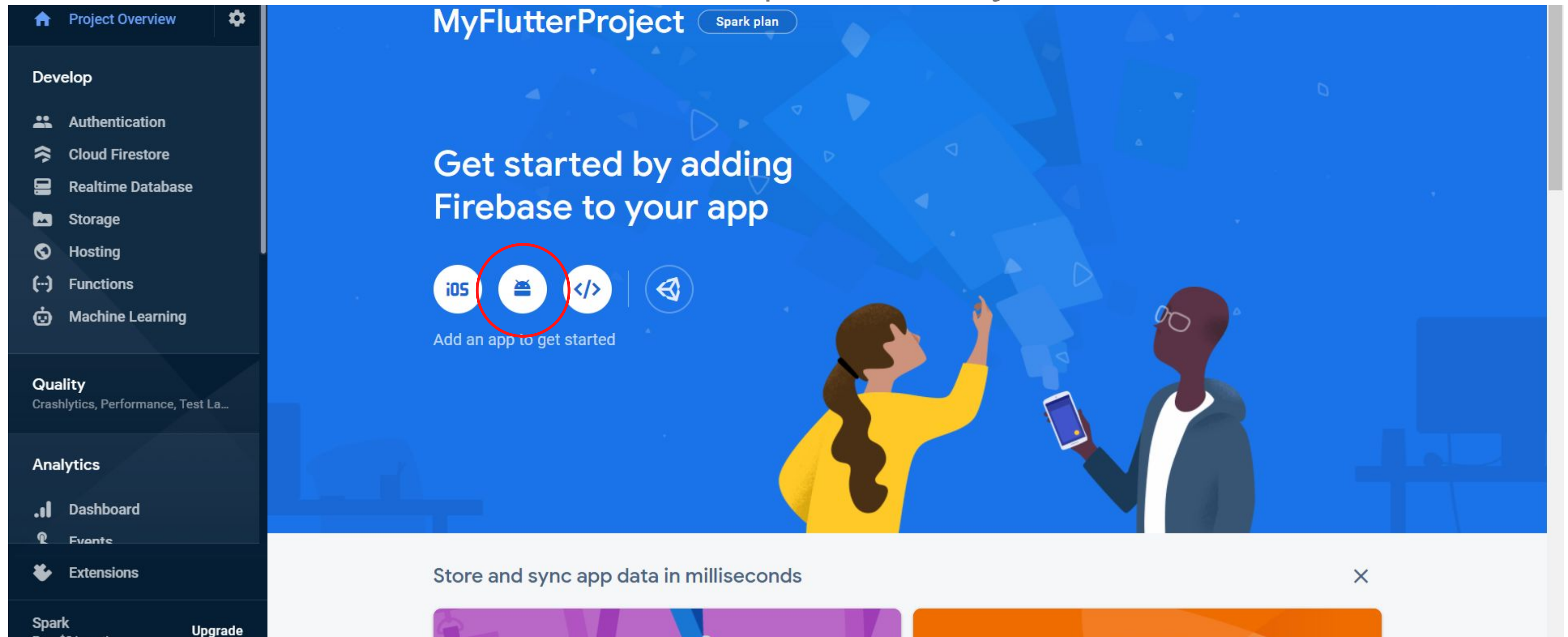
Step - 9

All set to go, our firebase project is ready click on continue button to proceed further.



Step - 10

Your firebase's project home page will appear in front of you here we have to select the type of application for which we are going to setup push notifications. For now we will continue with Android. Click on the android icon a window will open in front of you.



Step - 11

In here we have to link our Flutter app with our firebase project. we have to add the package name of our Flutter app (android side) in the very first text box.

Add Firebase to your Android app

1

Register app

Android package name ?

com.company.appname

App nickname (optional) ?

My Android App

Debug signing certificate SHA-1 (optional) ?

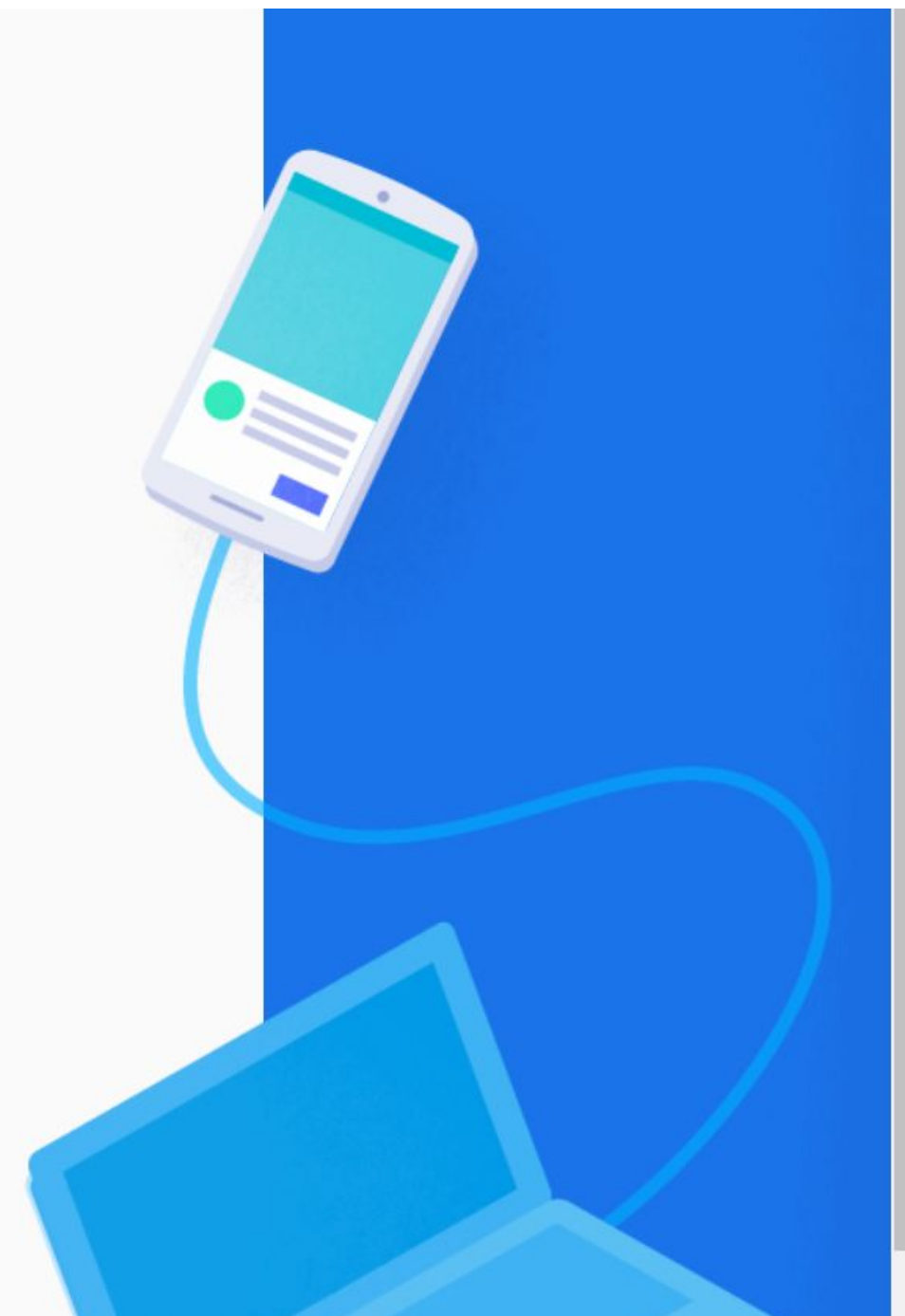
00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:00:(

Required for Dynamic Links, Invites and Google Sign-In or phone-number support in Auth. Edit SHA-1s in Settings.

Register app

2

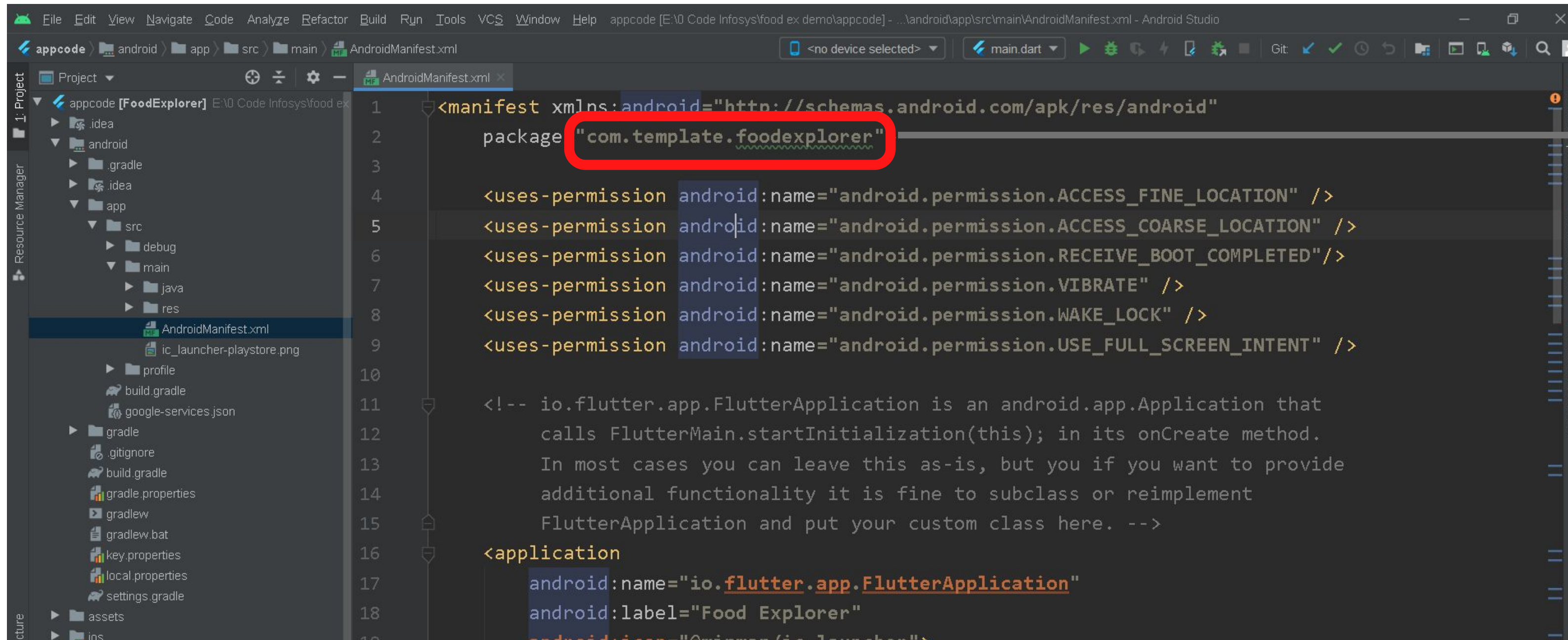
Download config file



Step - 12

In order to get the package name of your application open project in android studio and follow the path.

appcode -> android -> app -> src -> AndroidManifest.xml



Copy
this
package
name
and
open
the
firebase
project
browser
window

Double click on this file to open up in editor.

Step - 15

Now in second step download the "google-services.json" file to your system, by clicking this blue button

× Add Firebase to your Android app

✓ Register app
Android package name: com.template.foodexplorer, app nickname: MyApp

2 Download config file
Instructions for Android Studio below | [Unity](#) [C++](#)

Download google-services.json

Switch to the **Project** view in Android Studio to see your project root directory.

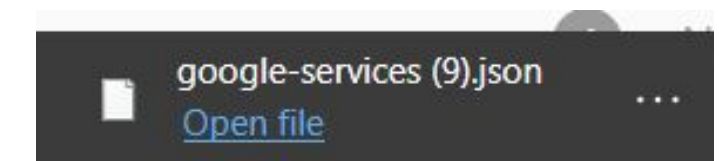
Move the google-services.json file that you just downloaded into your Android app module root directory.

google-services.json

Previous Next

3 Add Firebase SDK

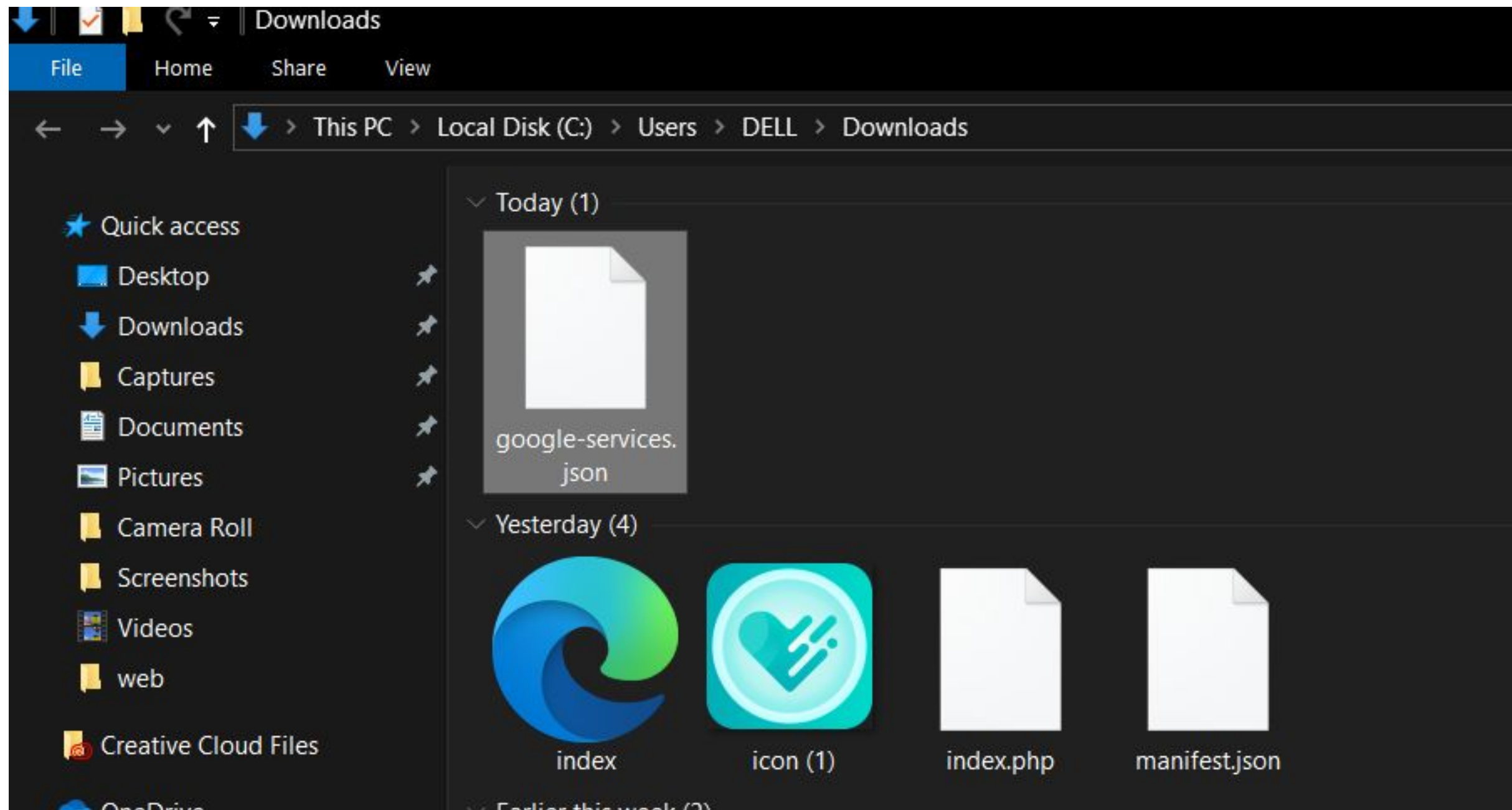
4 Next steps



After downloading the file don't try to open it directly. click on 3 dots and then click on "Show in folder option". make sure to rename the file as "google-services.json"

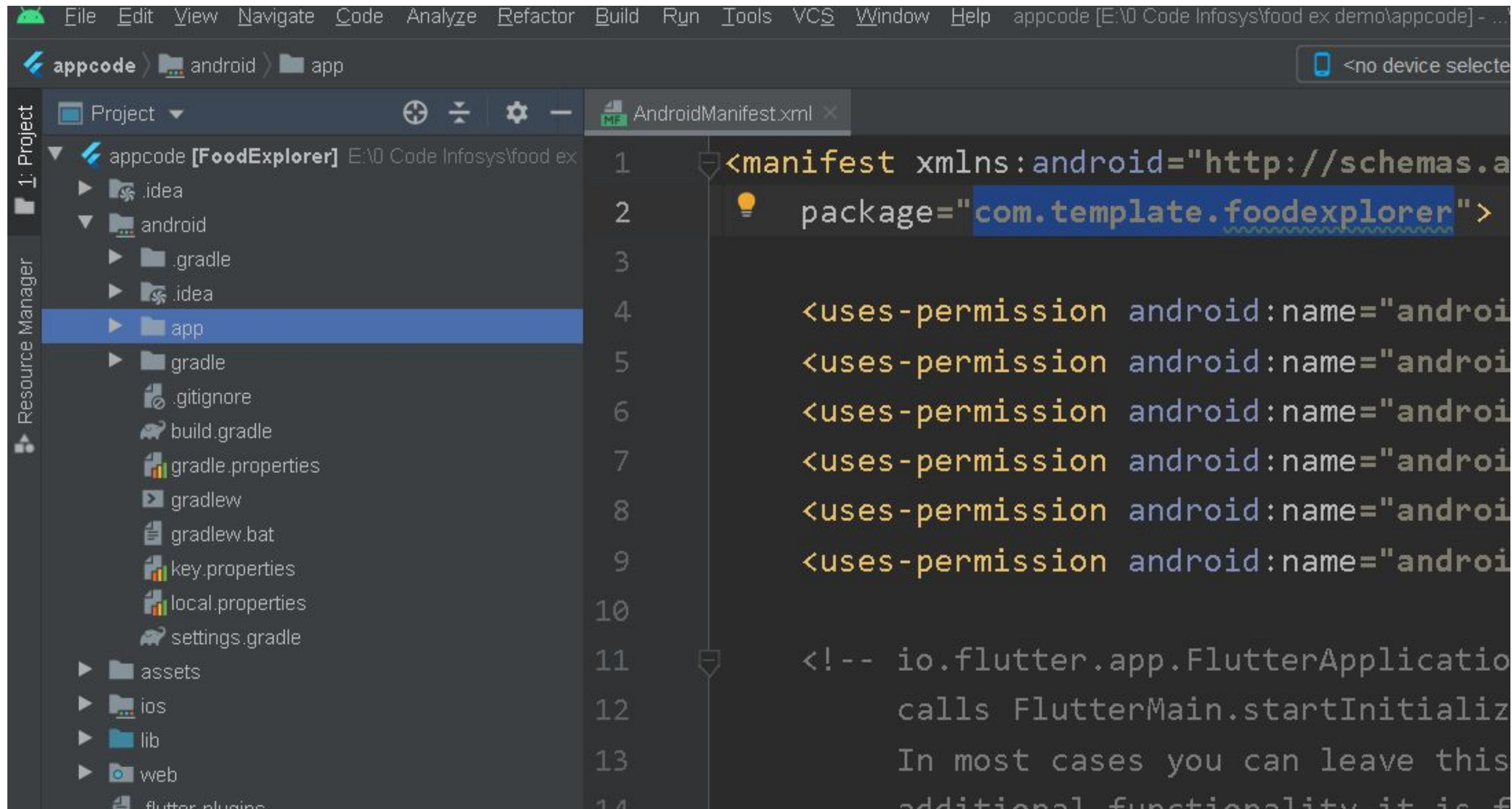
Step - 16

After opening the file in file manager copy the file, we are going to paste it in android studio.



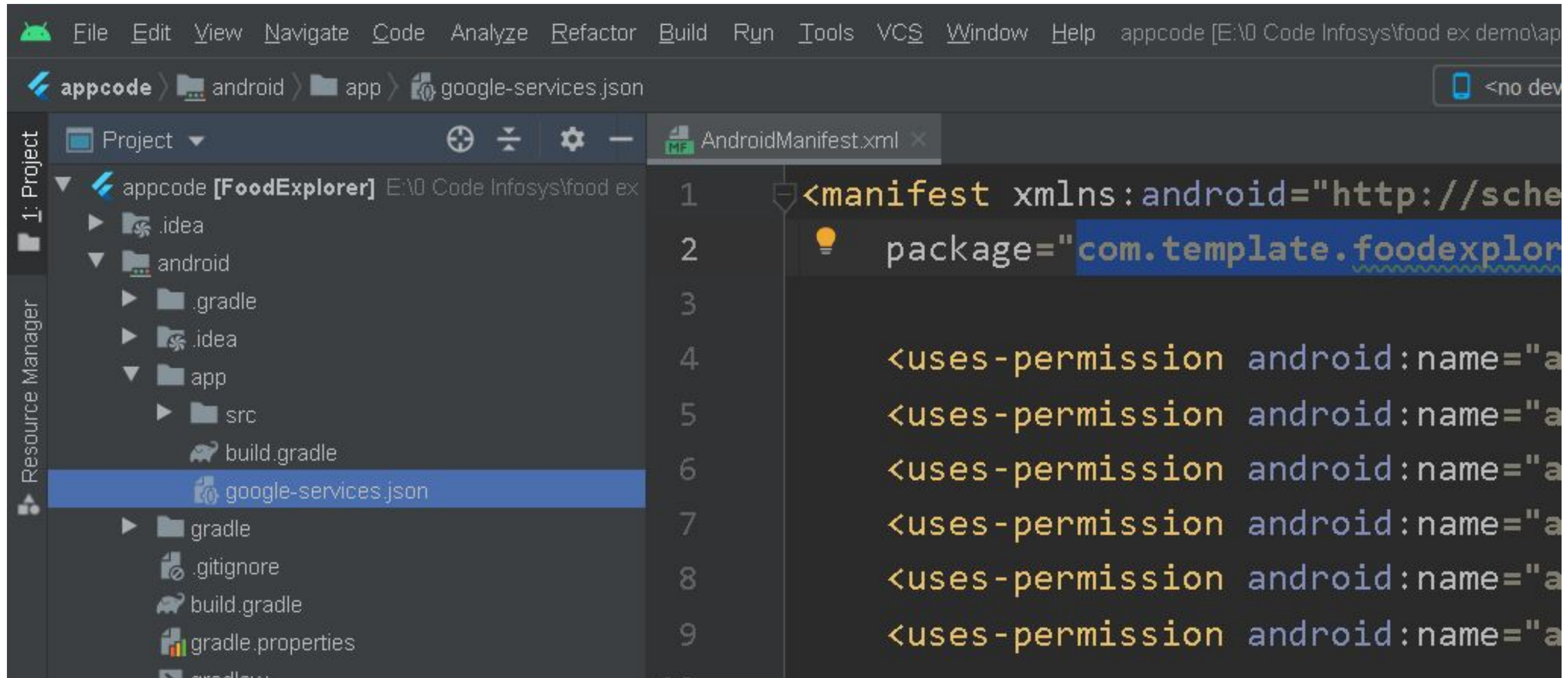
Step - 17

Follow the path appcode -> android -> app. Copy paste the file in app folder.



Step - 18

Here you can see the "google-services.json" file is placed in the app folder under the build.gradle file make you to verify this path.



Step - 19

Go back to browser and open up step 3, simply click on next button.

Java Kotlin

App-level build.gradle (<project>/<app-module>/build.gradle):

```
apply plugin: 'com.android.application'
// Add this line
apply plugin: 'com.google.gms.google-services'

dependencies {
    // Import the Firebase BoM
    implementation platform('com.google.firebase:firebase-bom:26.1.0')

    // Add the dependency for the Firebase SDK for Google Analytics
    // When using the BoM, don't specify versions in Firebase dependencies
    implementation 'com.google.firebase:firebase-analytics'

    // Add the dependencies for any other desired Firebase products
    // https://firebase.google.com/docs/android/setup#available-libraries
}
```

By using the Firebase Android BoM, your app will always use compatible Firebase library versions. [Learn more](#)

Finally, press 'Sync now' in the bar that appears in the IDE:

Gradle files have changed since last sync Sync now

Previous

Next

4 Next steps

Go to docs

Step - 20

We are all set to go click on continue to console.

×

Add Firebase to your Android app

✓

Register app
Android package name: com.template.foodexplorer, app nickname: MyApp

✓

Download config file

✓

Add Firebase SDK

4

Next steps

You're ready!

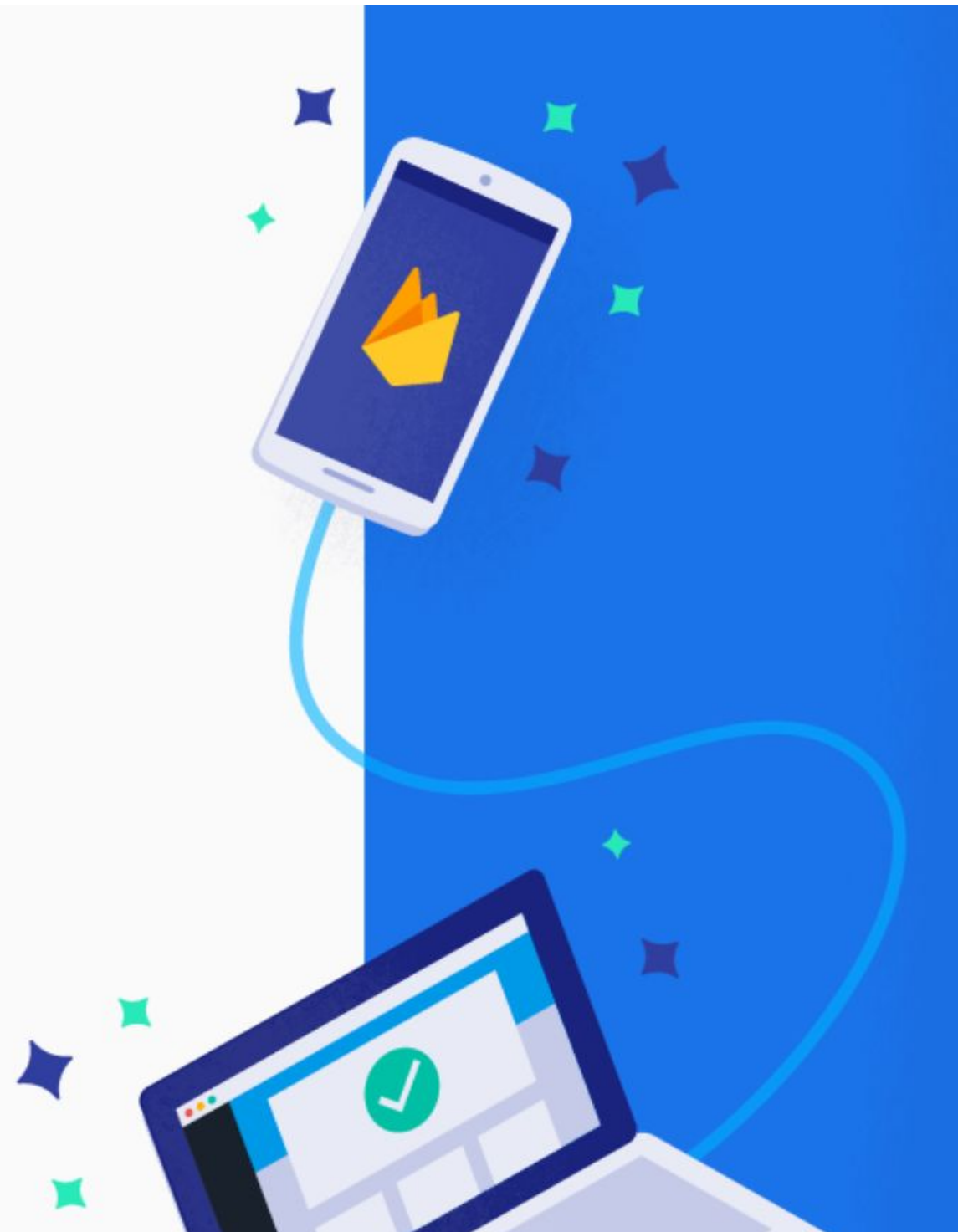
Make sure that you take a look at the [documentation](#) to learn how to get started with each Firebase product that you want to use in your app.

You can also explore [sample Firebase apps](#).

Or, continue to the console to explore Firebase.

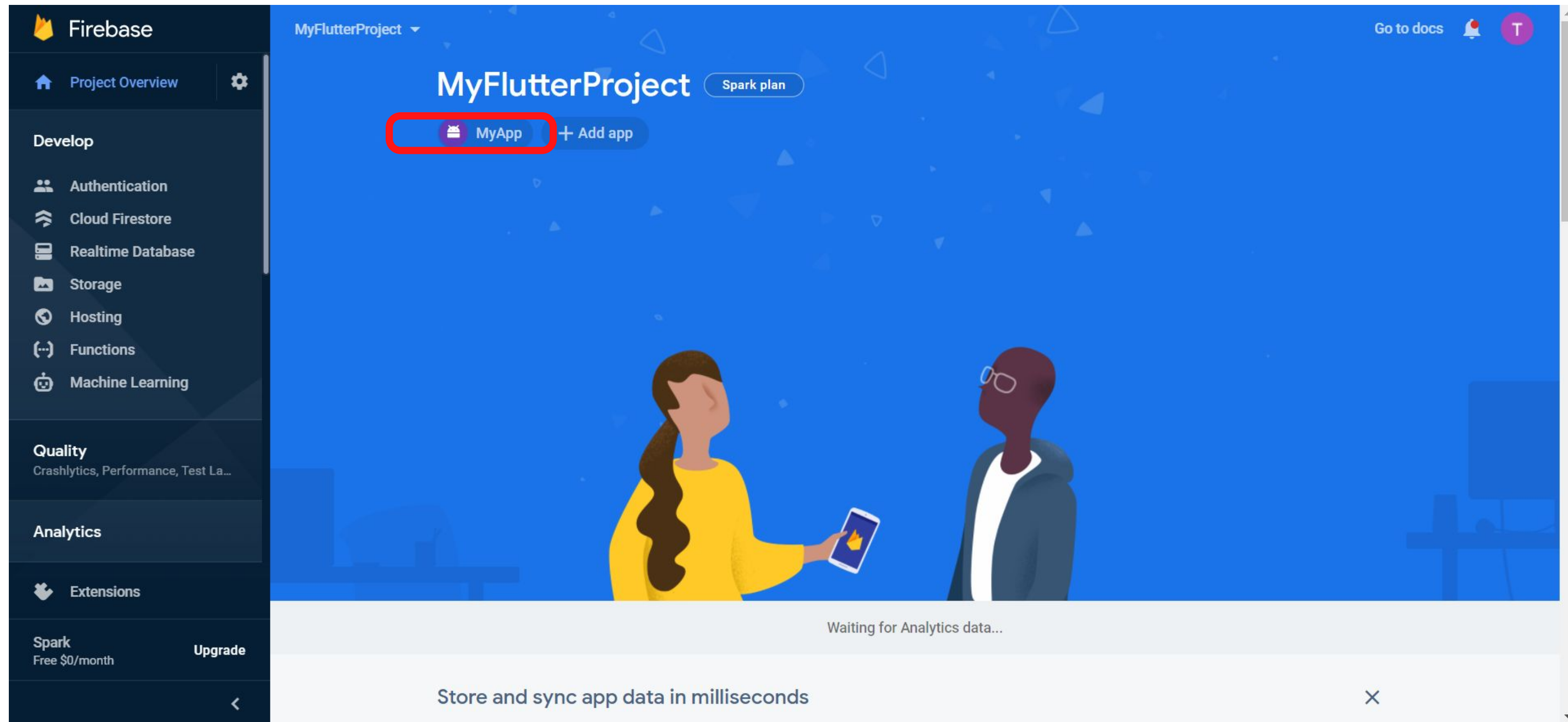
Previous

Continue to the console



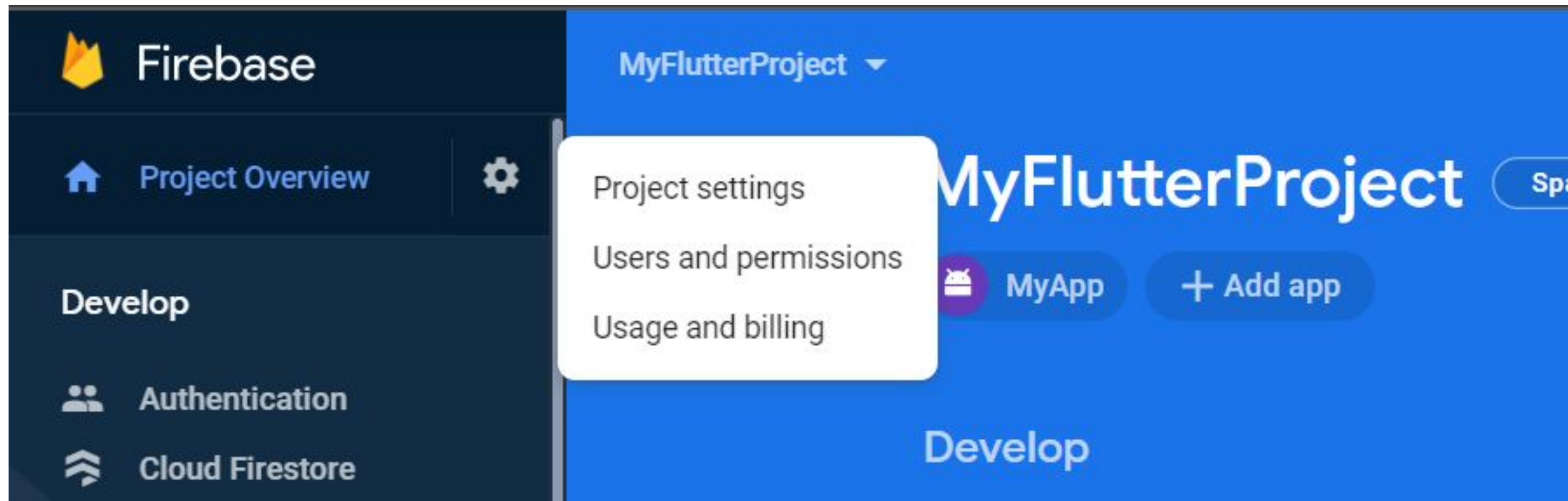
Step - 21

Here you can notice that our app i.e. "MyApp" is added to firebase successfully. it's time to get the server key.



Step - 22

Click on the settings option on right side of Project Overview. 3 options will appear in front of you.
click on project setting option



Step - 23

This window will appear in front of you. click on cloud messaging tab.

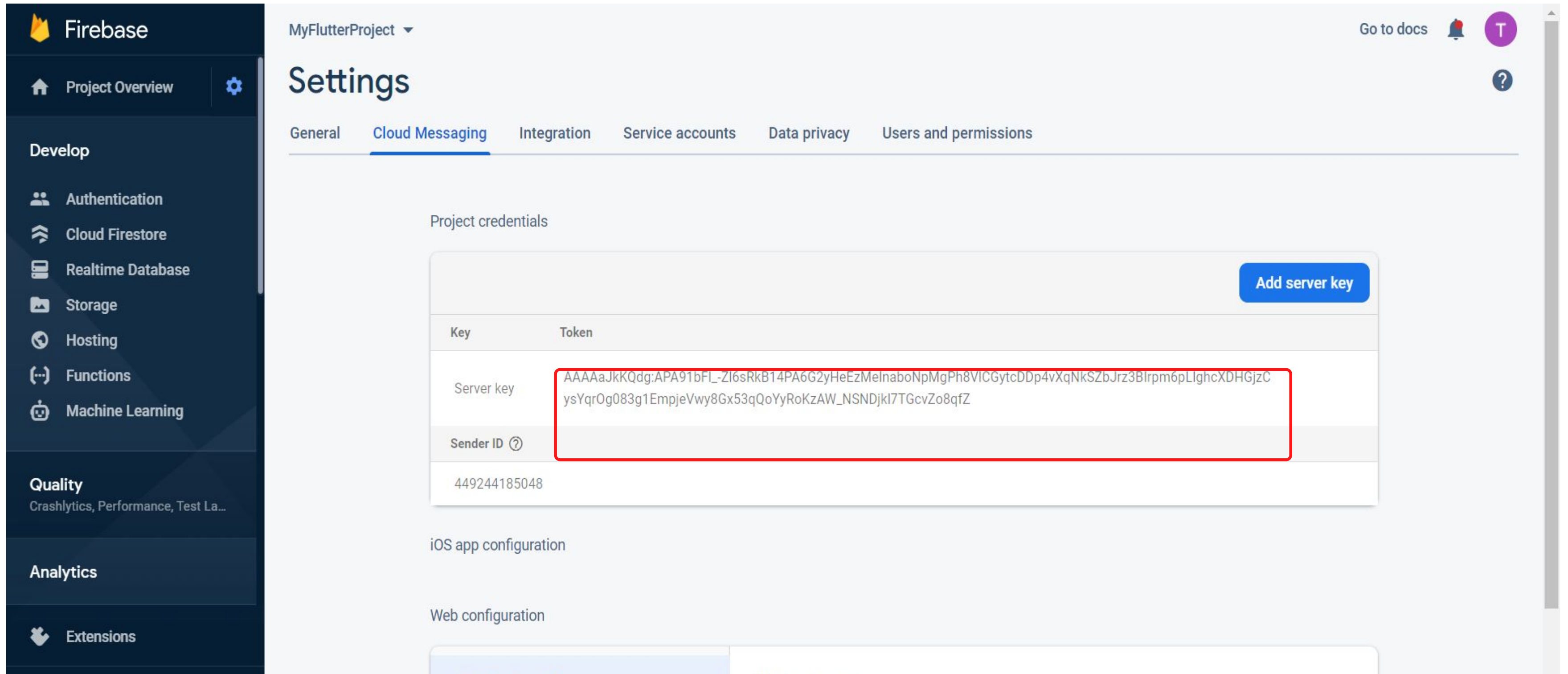
The screenshot shows the Firebase console interface. On the left is a dark sidebar with the 'Firebase' logo and a list of services: Project Overview, Authentication, Cloud Firestore, Realtime Database, Storage, Hosting, Functions, Machine Learning, Quality, Analytics, Extensions, and Spark. The main content area is titled 'Settings' for 'MyFlutterProject'. A red rectangle highlights the 'Cloud Messaging' tab in the top navigation bar. Below the tabs, the 'Your project' section displays a list of project attributes: Project name (MyFlutterProject), Project ID (myflutterproject-cc1e7), Project number (449244185048), Default GCP resource location (Not yet selected), and Web API key (No web API key for this project). The 'Public settings' section follows, with a note that these settings control instances shown to the public. It includes a 'Public-facing name' (project-449244185048) and a 'Support email' dropdown menu currently set to 'Not configured'.

Your project	
Project name	MyFlutterProject
Project ID	myflutterproject-cc1e7
Project number	449244185048
Default GCP resource location	Not yet selected
Web API key	No web API key for this project

Public settings	
These settings control instances of your project shown to the public	
Public-facing name	project-449244185048
Support email	Not configured

Step - 24

In here get the server key and paste it in the server. After this login to your admin panel.




The screenshot shows the Firebase console interface for a project named 'MyFlutterProject'. The left sidebar contains navigation links for 'Project Overview', 'Develop' (Authentication, Cloud Firestore, Realtime Database, Storage, Hosting, Functions, Machine Learning), 'Quality' (Crashlytics, Performance, Test Lab), 'Analytics', and 'Extensions'. The main content area is titled 'Settings' and has tabs for 'General', 'Cloud Messaging' (selected), 'Integration', 'Service accounts', 'Data privacy', and 'Users and permissions'. Under the 'Cloud Messaging' tab, the 'Project credentials' section contains a table with the following data:

Key	Token
Server key	AAAAaJkKQdg:APA91bFL_ZI6sRkB14PA6G2yHeEzMelnaboNpMgPh8VICGytcDDp4vXqNkSZbJrz3Blrpm6pLlghcXDHGjzCysYqrOg083g1EmpjeVwy8Gx53qQoYyRoKzAW_NSNDjkl7TGcvZo8qfZ
Sender ID ⓘ	449244185048

An 'Add server key' button is located in the top right corner of the 'Project credentials' section. Below this section, the 'iOS app configuration' and 'Web configuration' sections are partially visible.

Step - 25

Open up the admin panel in the browser. Click on Android Notifications



MENU

Dashboard

Appointment

Doctors

Patients

Specialities

Review

Complain

Send Notification

Notification Key

Dashboard

9
New Appointment

27
Total Doctors

7
Total Patients

1
Total Review

Show 10 entries

Search:

Id	Doctor Name	Patient Name	DateTime	Phone	User Description	Status
No data available in table						

Showing 0 to 0 of 0 entries

Previous

Next

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Step - 26

Here paste the server key and Click on update button.

docpro

MENU

- Dashboard

APPOINTMENT

- Appointment
- Doctors
- Patients
- Specialities
- Review
- Complain

NOTIFICATION

- Send Notification
- Notification Key**

Edit Notification Key

Android Key

AAAA_5FEW7k:APA91bFRJmdJTABGB5AK6SYE7WutCJmR2cwUGR6oTL1cbEw-l7w3v-ZnxxkJNpGtoBDCDkd0webaw8DDEbBQkmgS6QjlIs4Vle10acPLM5ZDRpl2Xk6yOSkQC-HSN04NIHKh6fBwvvgKp

Ios Key

AAAA_5FEW7k:APA91bFRJmdJTABGB5AK6SYE7WutCJmR2cwUGR6oTL1cbEw-l7w3v-ZnxxkJNpGtoBDCDkd0webaw8DDEbBQkmgS6QjlIs4Vle10acPLM5ZDRpl2Xk6yOSkQC-HSN04NIHKh6fBwvvgKp

Submit

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Step - 27

After successfully updating android key, Flutter application is ready to receive notifications for

The screenshot shows the 'docpro' web application interface. On the left is a sidebar menu with categories: MENU (Dashboard), APPOINTMENT (Appointment, Doctors, Patients, Specialities, Review, Complain), and NOTIFICATION (Send Notification, Notification Key). The 'Notification Key' option is currently selected. The main content area is titled 'Edit Notification Key' and contains a modal form. At the top of the modal is a green success message: 'Notification Key Update Successfully'. Below this, there are two input sections: 'Android Key' with a text area containing a long alphanumeric string, and 'Ios Key' with a text area containing 'abc'. A blue 'Submit' button is at the bottom of the modal. The footer of the page includes the copyright notice '2021 © Appointment Book System' and a credit 'By Appointment Book System' with a heart icon.

docpro

MENU

- Dashboard

APPOINTMENT

- Appointment
- Doctors
- Patients
- Specialities
- Review
- Complain

NOTIFICATION

- Send Notification
- Notification Key**

Edit Notification Key

Edit Notification Key

Notification Key Update Successfully

Android Key

AAAA_5FEW7k:APA91bFRJmdJTABGB5AK6SYE7WutCJjmR2cwUGR6oTL1cbEw-l7w3v-ZnxkJNpGtoBDCDkd0webaw8DDEbBQkmgS6QjIIs4Vle10acPLM5ZDRpl2Xk6yOSkQC-HSN04NIHKh6fBwvgKp

Ios Key

abc

Submit

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