

Week 6 Day 1

Setting up Firebase Account

What is Firebase?

Firebase is a platform developed by Google for creating web and mobile applications.

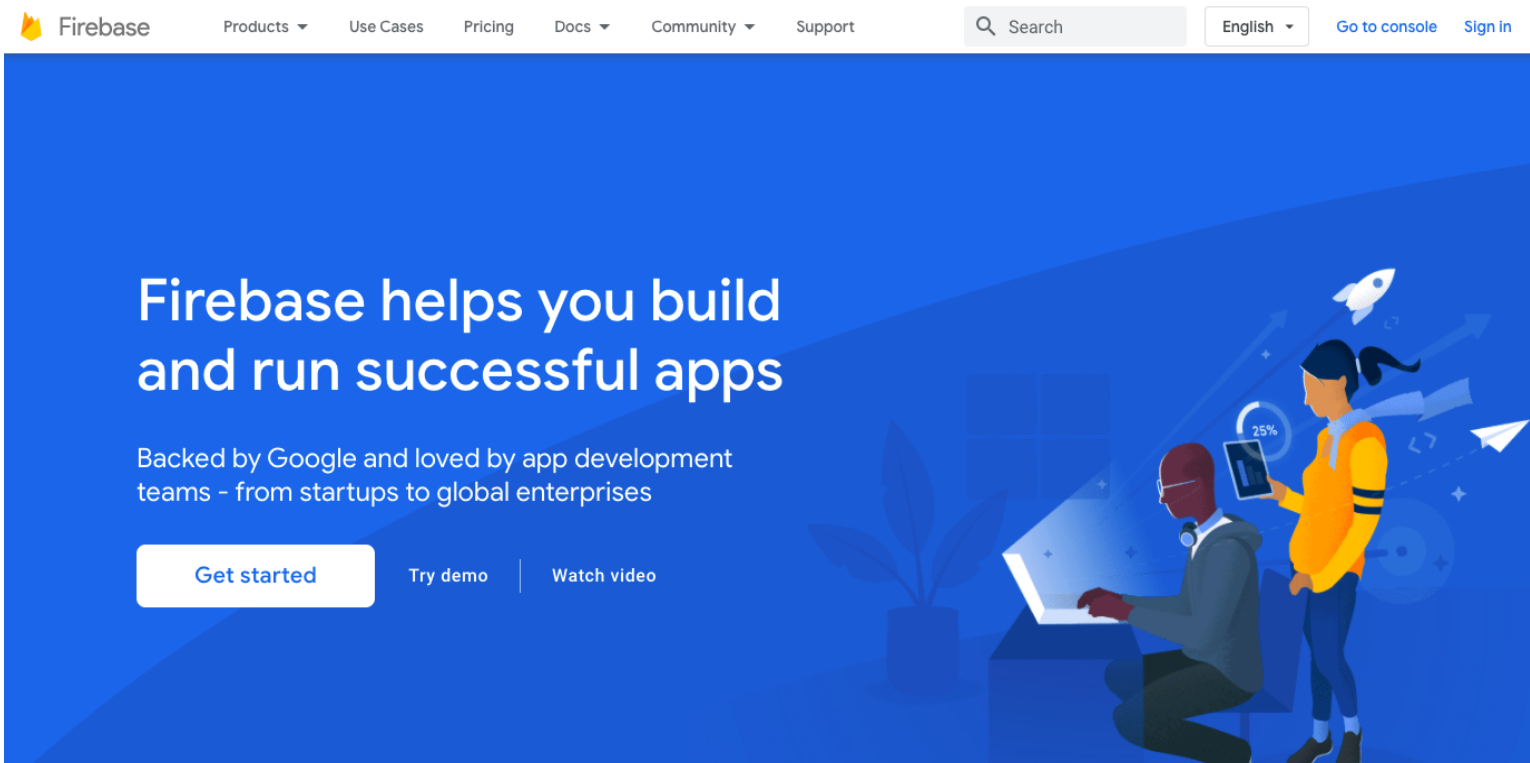
What is Firebase used for?

Firebase is a backend platform for building iOS, Android, and Web apps.

What features does Firebase provide?

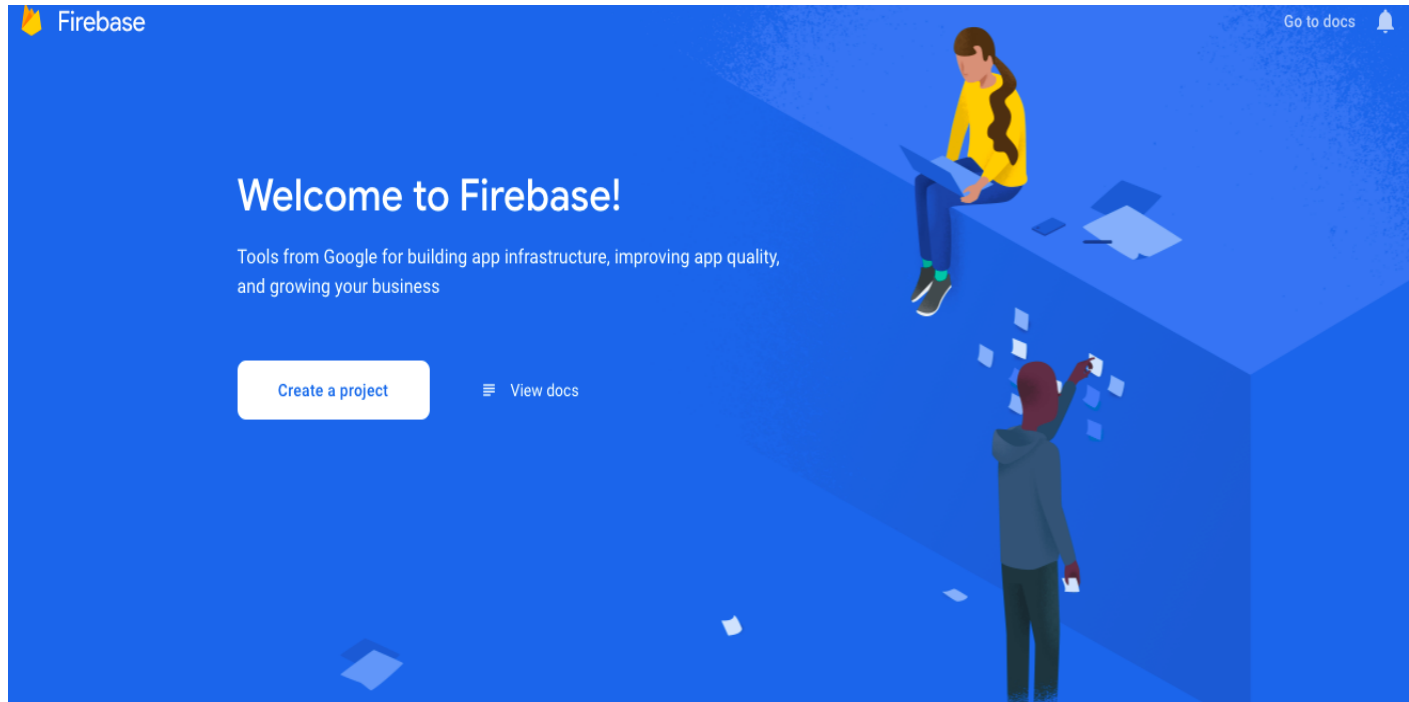
Firebase provides tools such as Authentication, Firestore database, Realtime database, Storage, hosting, cloud messaging, Analytics, bug fixing and much more.

How to get started with Firebase?



Go to <https://firebase.google.com/>

Create an account by clicking on Go to Console on the top right.
You will need to login using your Google account.



Click on create a project.

Enter a project name and accept terms and conditions. Once this is done, click Continue.

× Create a project (Step 1 of 3)

Let's start with a name for your project®


Enter your project name

my-awesome-project-id

Select parent resource

☐ I accept the [Firebase terms](#)

Continue

An illustration on the right side of the form shows two people. A woman with long brown hair, wearing a yellow shirt, is sitting at a desk with a laptop. A man with glasses, wearing a dark jacket, is standing next to her, holding a smartphone. The background is blue with some floating code blocks.

Click Continue.


×


Create a project (Step 2 of 3)


Google Analytics for your Firebase project


Google Analytics is a free and unlimited analytics solution that enables targeting, reporting, and more in Firebase Crashlytics, Cloud Messaging, In-App Messaging, Remote Config, A/B Testing, Predictions, and Cloud Functions.


Google Analytics enables:


 A/B testing ⓘ

 User segmentation & targeting across Firebase products ⓘ

 Predicting user behavior ⓘ

 Crash-free users ⓘ


 Event-based Cloud Functions triggers ⓘ

 Free unlimited reporting ⓘ

☒ Enable Google Analytics for this project
Recommended

[Previous](#)

Continue



Click on your current location and accept the terms and conditions. Once this is completed click on Create Project.

×

Create a project (Step 3 of 3)

Configure Google Analytics

Analytics location ⓘ

United States

Data sharing settings and Google Analytics terms

☒ Use the default settings for sharing Google Analytics data. [Learn more](#)

☒ Share your Analytics data with Google to improve Google Products and Services

☒ Share your Analytics data with Google to enable Benchmarking

☒ Share your Analytics data with Google to enable Technical Support

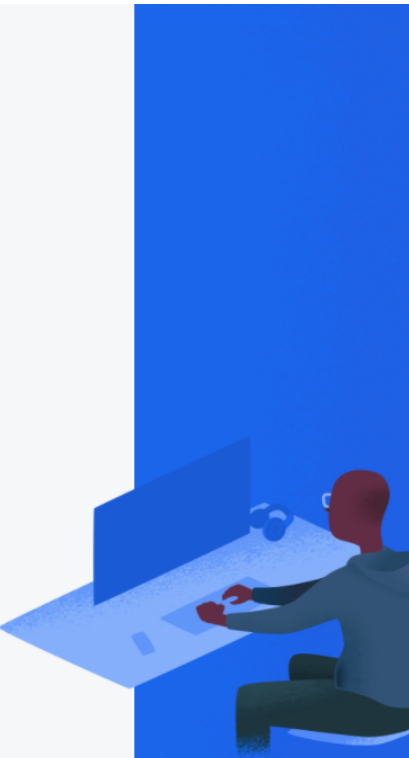
☒ Share your Analytics data with Google Account Specialists

☒ I accept the [Google Analytics terms](#)

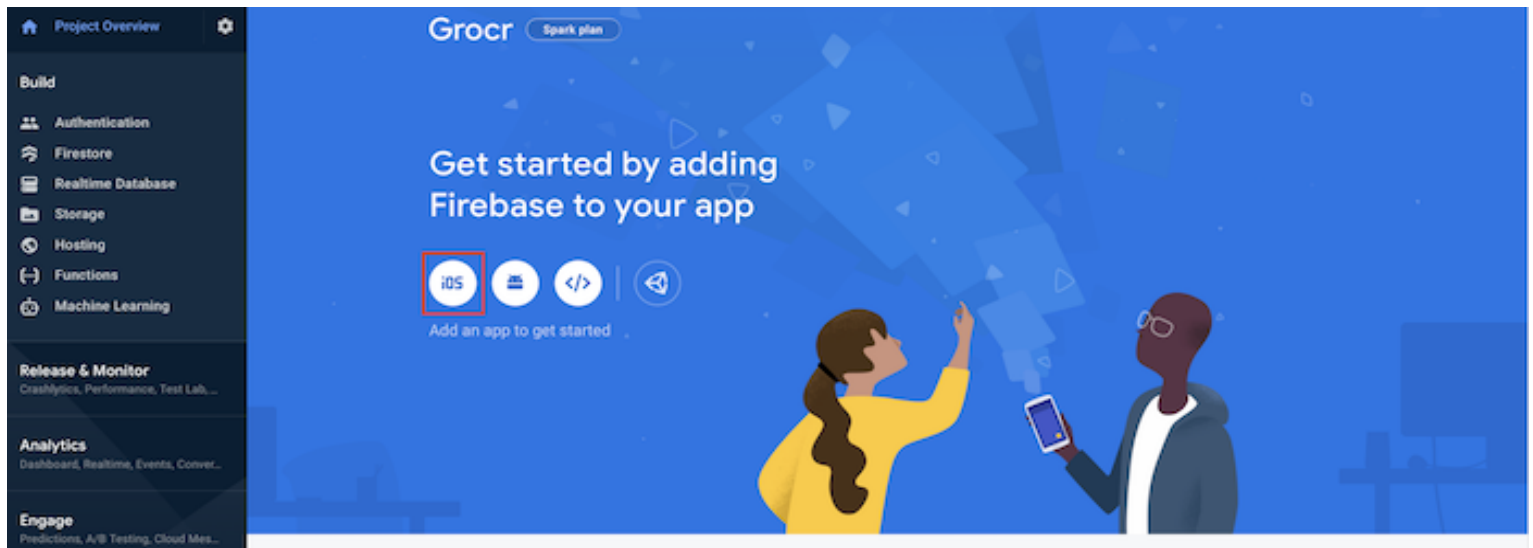
Upon project creation, a new Google Analytics property will be created and linked to your Firebase project. This link will enable data flow between the products. Data exported from your Google Analytics property into Firebase is subject to the Firebase terms of service, while Firebase data imported into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

[Previous](#)

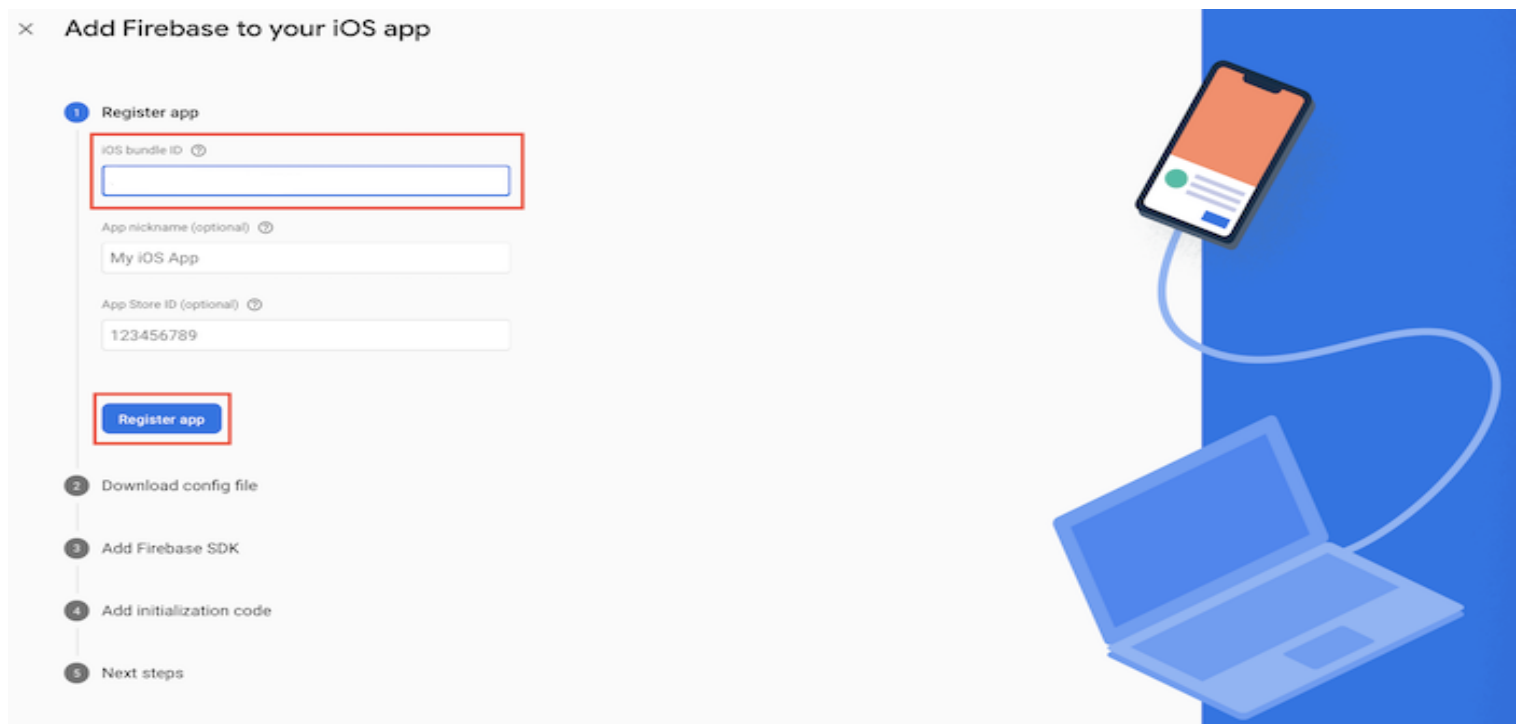
Create project



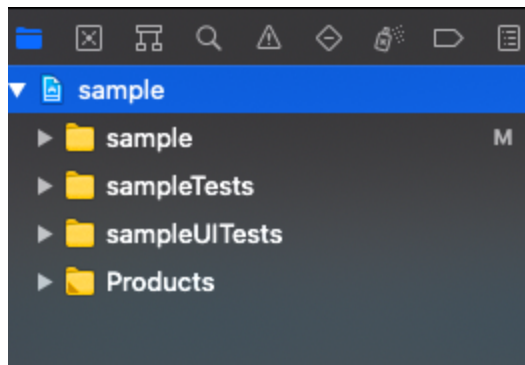
After creating a project click on iOS.



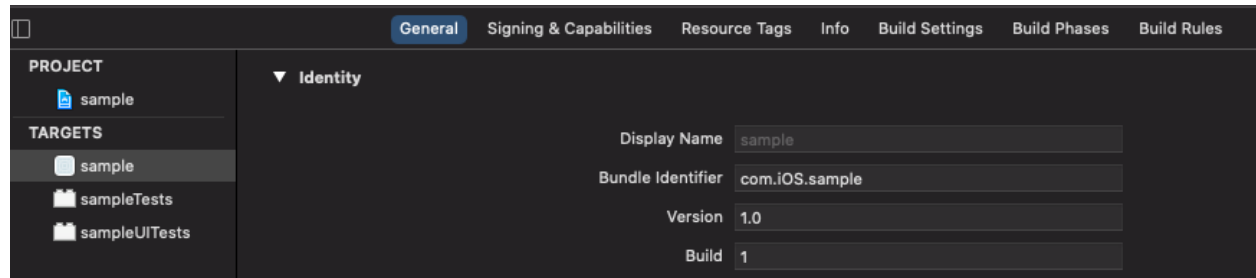
The iOS Bundle ID must be written exactly the same as the Bundle Identifier in XCode.



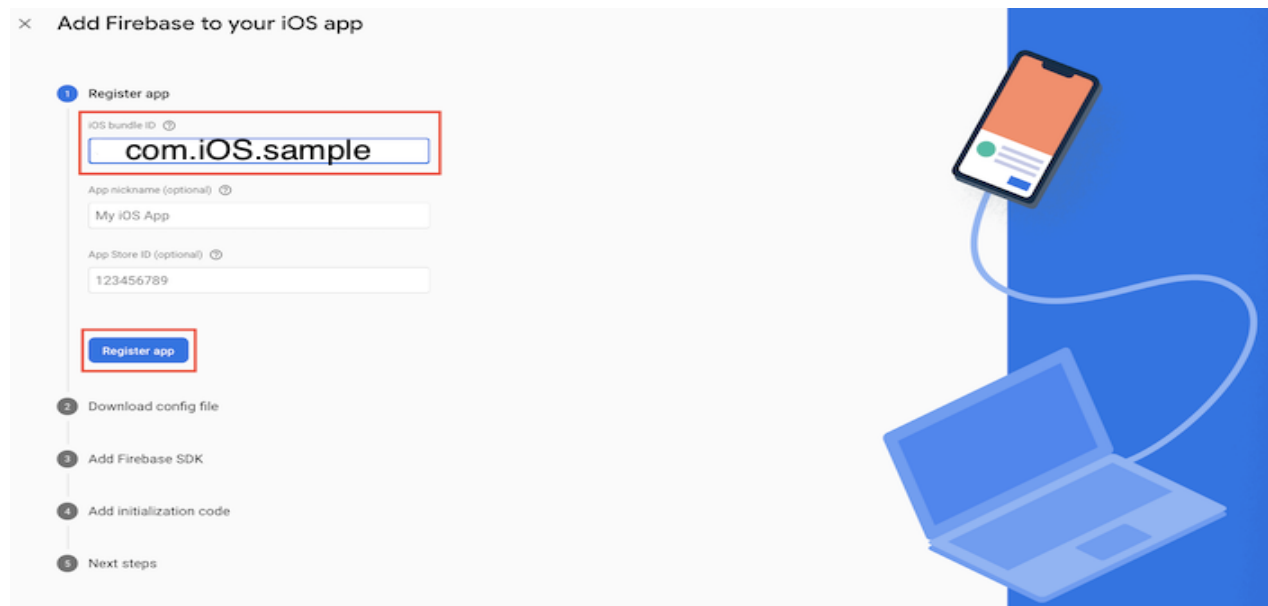
Open your iOS project in XCode, select the top-level app in the project navigator



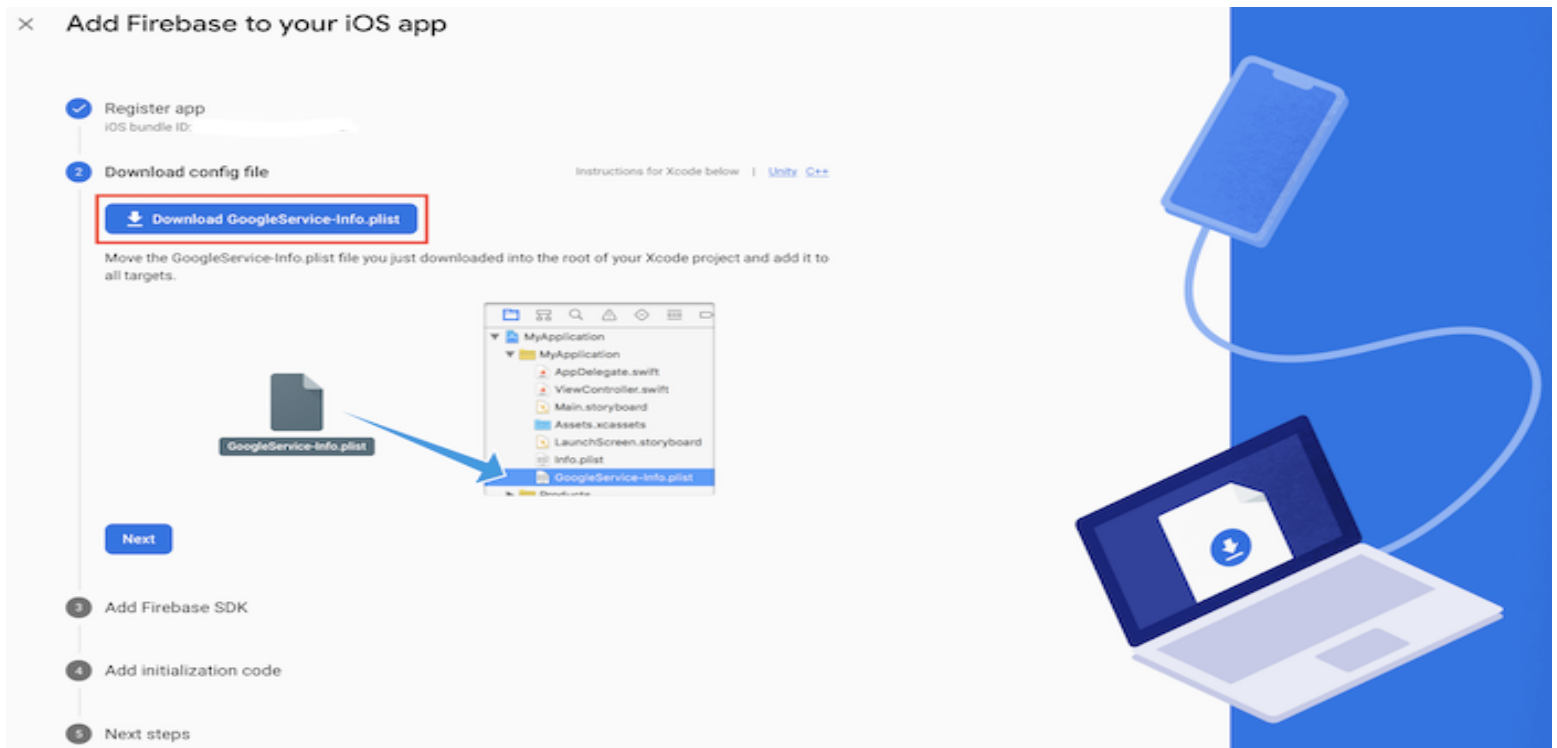
Select the General tab.



The Bundle Identifier from XCode must be written the same as the iOS Bundle ID in Firebase.



Click Download GoogleService-Info.plist Follow the instructions and move it to the root of your Xcode project.



We are going to use CocoaPods to install dependencies. In this case we will be installing Firebase to our Xcode project. Open terminal and navigate to the location where your Xcode project is located. For example, if our project is in Desktop then type `cd Desktop`. Type the code below. This will initialize and install a Podfile.



After installing the Podfile. You will see a file with a .xcworkspace. We will be now using this file for our project. We will no longer use the .xcodeproj file.

The sample code below is an example of how to configure and initialize firebase for our app. We will add this code in our AppDelegate file in Xcode. Click next when this step is completed.

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Add Firebase to your iOS app

✓

Register app

iOS bundle ID:

✓

Download config file

✓

Add Firebase SDK

4

Add initialization code

To connect Firebase when your app starts up, add the initialization code below to your main AppDelegate class.

☒ Swift ☐ Objective-C

```
import UIKit
import Firebase

@UIApplicationMain
class AppDelegate: UIResponder, UIApplicationDelegate {

    var window: UIWindow?

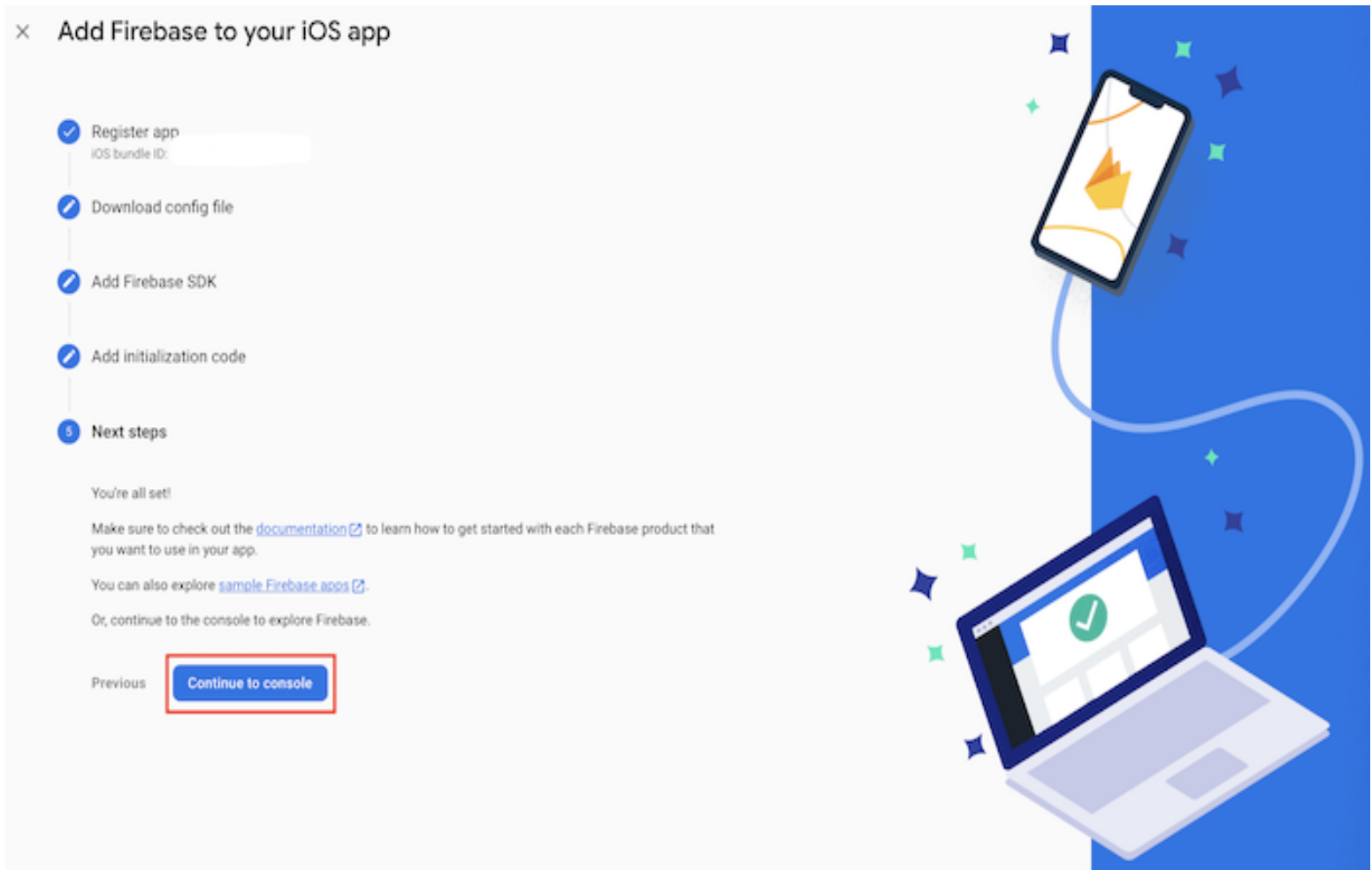
    func application(_ application: UIApplication,
        didFinishLaunchingWithOptions launchOptions:
            [UIApplicationLaunchOptionsKey: Any]? ) -> Bool {
        FirebaseApp.configure()
        return true
    }
}
```

Previous

Next



Click continue to finish setting up Firebase installation



Initializing Firebase to XCode

In XCode, open *AppDelegate.swift*. Add this code on top of your program to import Firebase.

```
import Firebase
```

In XCode, open *AppDelegate.swift*. Add this code before the return statement inside the *application(_: didFinishLaunchingWithOptions:)*

```
FirebaseApp.configure()
```



```
import UIKit
import Firebase

@UIApplicationMain
class AppDelegate: UIResponder, UIApplicationDelegate {

    var window: UIWindow?


    func application(_ application: UIApplication,
        didFinishLaunchingWithOptions launchOptions:
        [UIApplication.LaunchOptionsKey: Any]?) -> Bool {
        FirebaseApp.configure()
        return true
    }
}
```

Once everything is setup you should see your project name you created. Click on your project name and you will see the main menu of Firebase Dashboard.

The image above is an example of the Firebase Dashboard. The following section has Authentication, Firestore Database, Realtime Database, Storage, Hosting, Analytics and much more.

