

CocoaPods and Firebase Database

This demo shows you how to build a small chat room app by using the Firebase database.

We need CocoaPods to install and manage the Firebase SDK.

CocoaPods

CocoaPods is an application-level dependency manager for Objective-C, Swift. It is similar to `pip` in Python application. You can find more details about CocoaPods from its website: <https://cocoapods.org/>.

1. To install CocoaPods, type the following code into the Terminal on the Mac. The system will ask you to enter the password to finish the installation.

```
sudo gem install cocoapods
```

2. Type `pod` into the Terminal, we should see something similar to this screenshot.

```

→ ~ pod
Usage:

$ pod COMMAND

CocoaPods, the Cocoa library package manager.

Commands:

+ cache      Manipulate the CocoaPods cache
+ deintegrate Deintegrate CocoaPods from your project
+ env        Display pod environment
+ init       Generate a Podfile for the current directory
+ install    Install project dependencies according to versions from a
              Podfile.lock
+ ipc        Inter-process communication
+ lib        Develop pods
+ list       List pods
+ outdated   Show outdated project dependencies
+ plugins    Show available CocoaPods plugins
+ repo       Manage spec-repositories
+ search     Search for pods
+ setup      Setup the CocoaPods environment
+ spec       Manage pod specs
+ trunk      Interact with the CocoaPods API (e.g. publishing new specs)
+ try        Try a Pod!
+ update     Update outdated project dependencies and create new
              Podfile.lock

Options:

--silent      Show nothing
--version     Show the version of the tool
--verbose     Show more debugging information
--no-ansi     Show output without ANSI codes
--help        Show help banner of specified command

```

To use CocoaPods in our project, use `cd` to change the current working directory to our project, and then use `pod init` to create a Podfile.

A Podfile is a specification that describes the dependencies of the targets of one Xcode project.

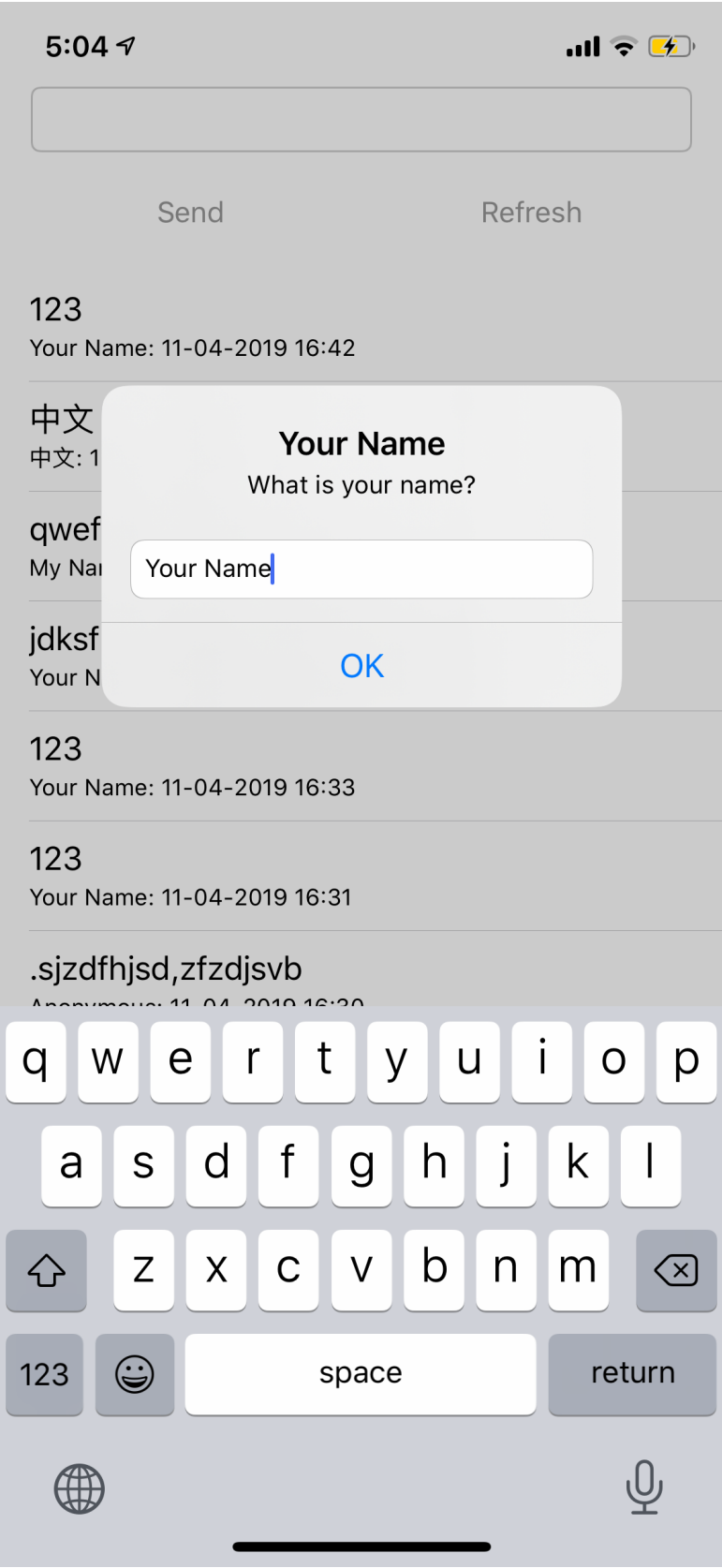
After we put everything we need (each SDK document will tell you what you need) in the Podfile and saved it, type `pod install` to install all the dependencies. Notice that CocoaPods will create a new file (it is actually a folder, but we will trade it as a file) named `<ProjectName>.xcworkspace` in the project folder. Open that file, and we will find that CocoaPods has configured all the dependencies for us. From now on, when we want to open the project, we will use `<ProjectName>.xcworkspace` instead of `<ProjectName>.xcodeproj`.

Firestore Database

To use Firestore Database, we need to install `Firestore` SDK. You can find more details about Add Firestore to your iOS project from here <https://firebase.google.com/docs/ios/setup>. You can also check out how to use the Firestore database here <https://firebase.google.com/docs/database/ios/start>.

Demo

To use this demo, run `pod install` in the demo project folder to install all the dependencies. After that, open `ChatRoom.xcworkspace` and run it. The app will ask you for your name and then allow you to post messages to the chat room.



5:05



Send

Refresh

test

test: 11-04-2019 17:05

123

Your Name: 11-04-2019 16:42

中文

中文: 11-04-2019 16:41

qwefghj

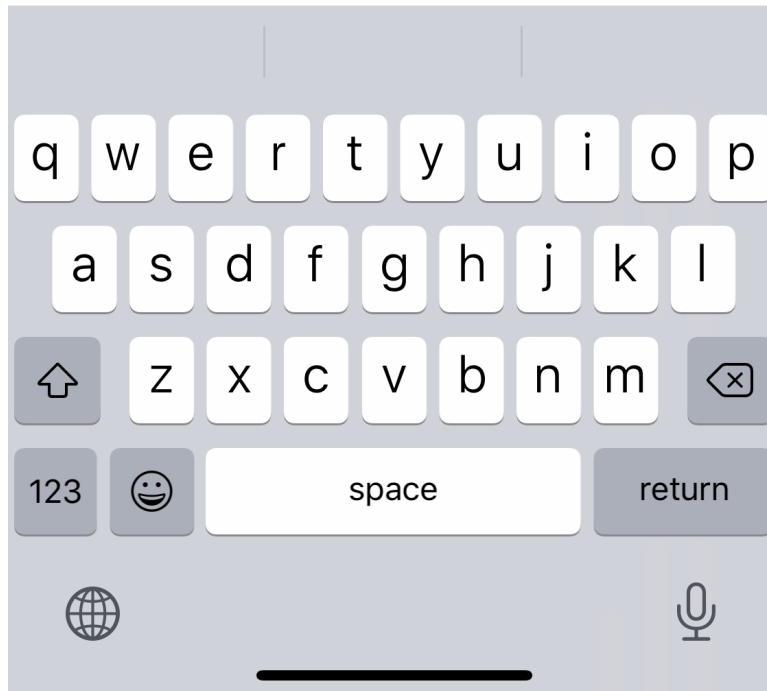
My Name: 11-04-2019 16:40

jdksfhbdgjhfe93208475jslfghfgd

Your Name: 11-04-2019 16:34

123

Your Name: 11-04-2019 16:33



Please note that we need a Google Service API KEY to run this app, and people should never share this information online ever. I include my key in GoogleService-Info.plist for demonstration purposes only. I may revoke this key if it gets abused.