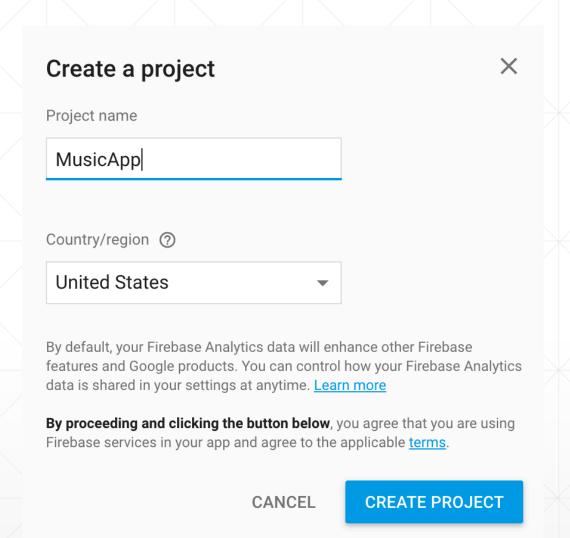
- Interact with a web service
- Create a backend to store our data
- Parse data from the cloud for display in our application

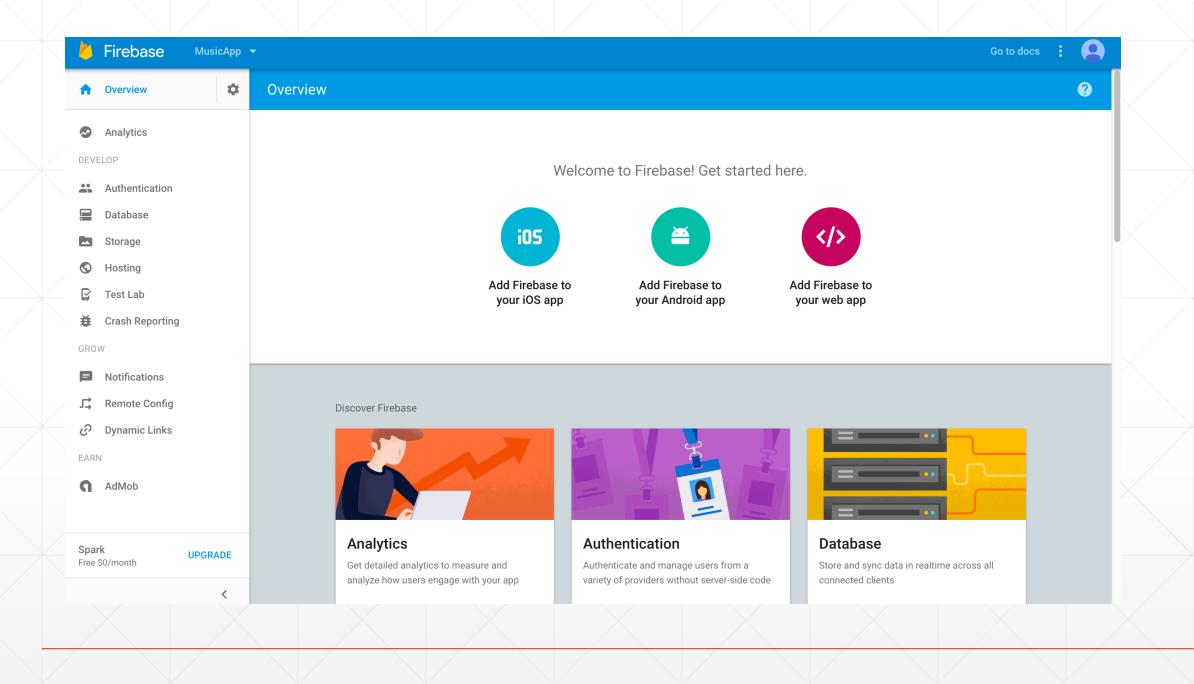
At least once a day, allow yourself the freedom to think and dream for yourself.

- ALBERT EINSTEIN



I don't have a Google accoun





- sudo gem install cocoapods
- pod init
- vi podfile

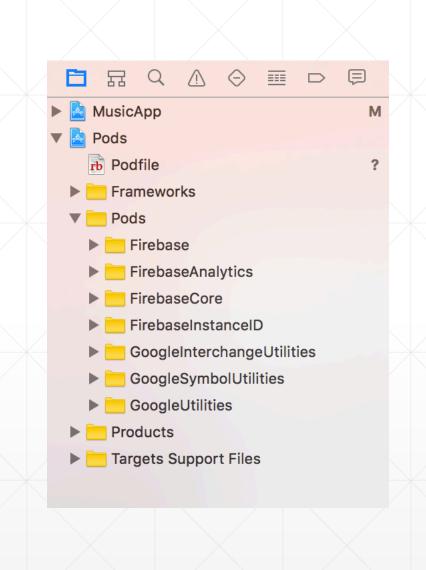
Podfile

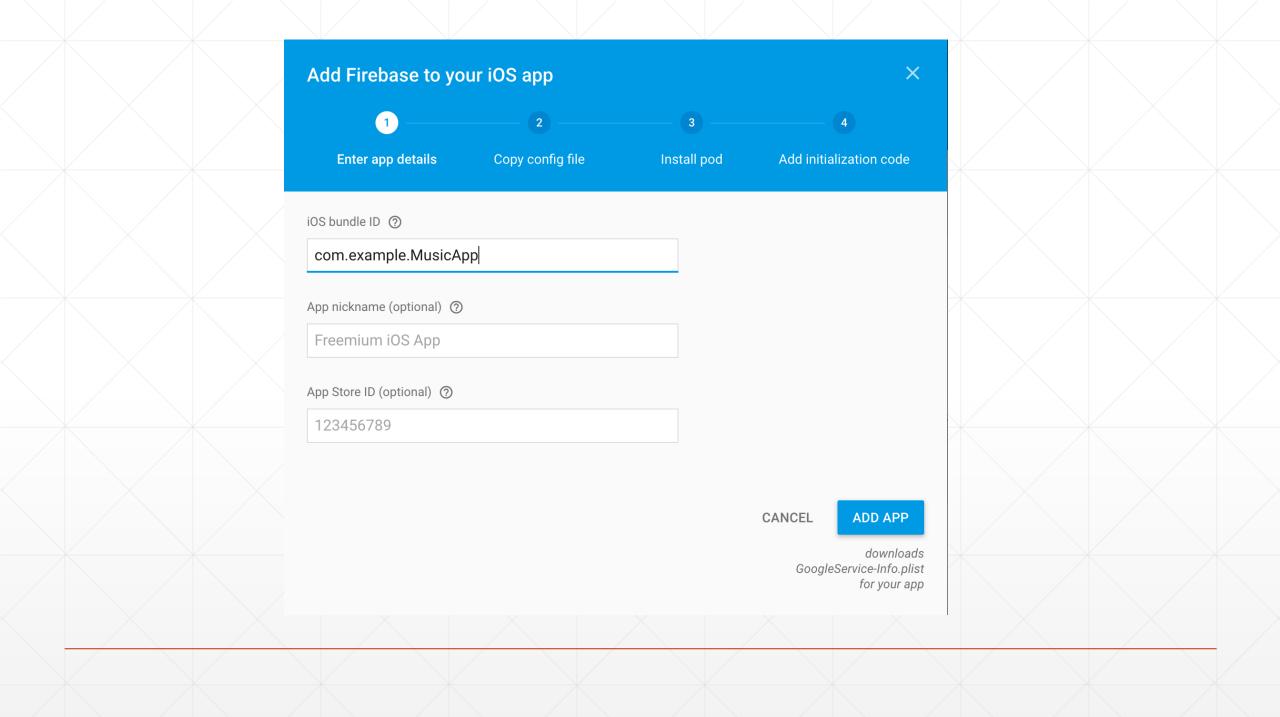
pod 'Firebase/Core'
use_frameworks!

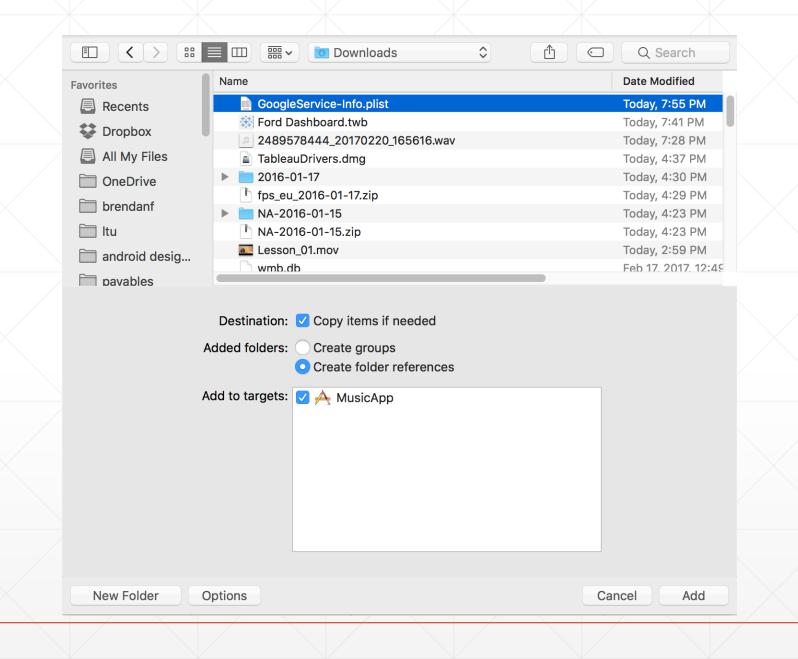
Podfile

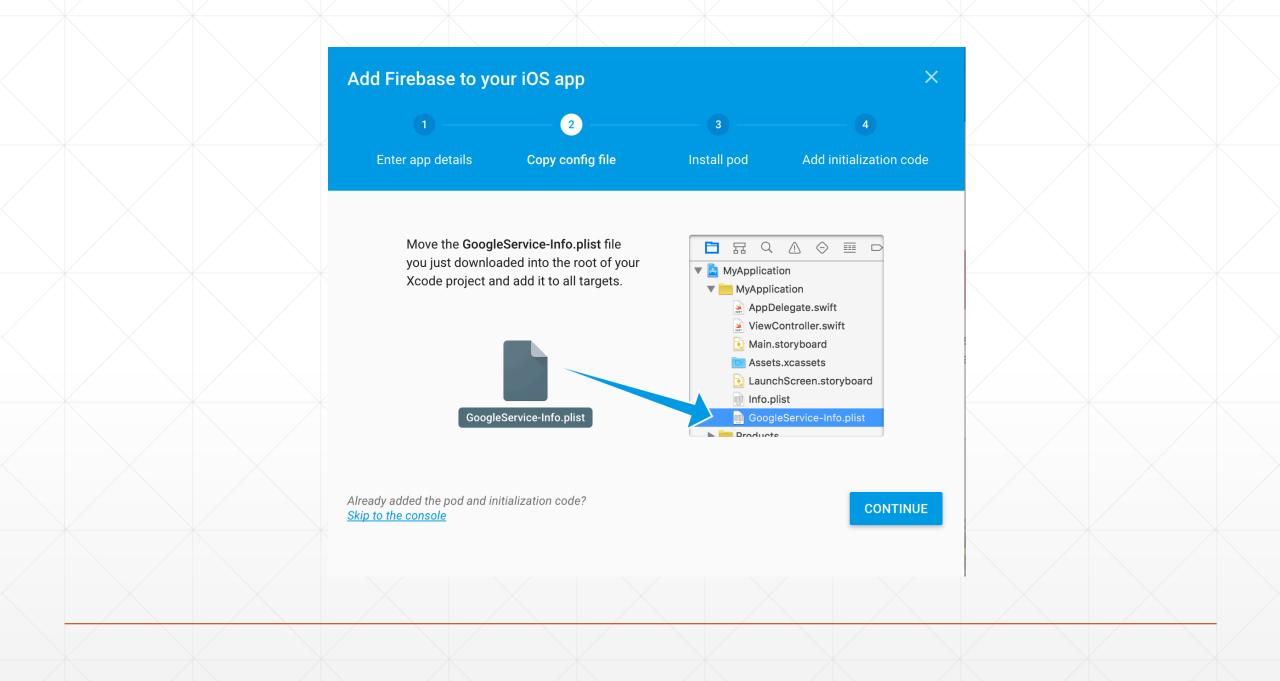
>pod install

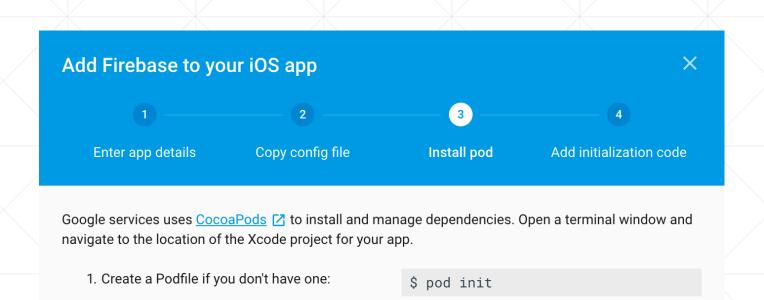
Close project and open xcworkspace file











pod 'Firebase/Core'

includes Firebase Analytics by default ①

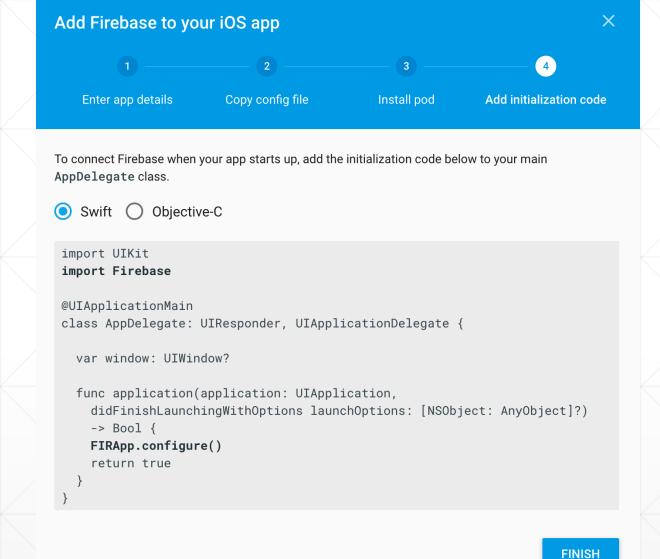
3. Save the file and run: \$ pod install

This creates an .xcworkspace file for your app. Use this file for all future development on your application.

Already added the pod and initialization code? Skip to the console

2. Open your Podfile and add:

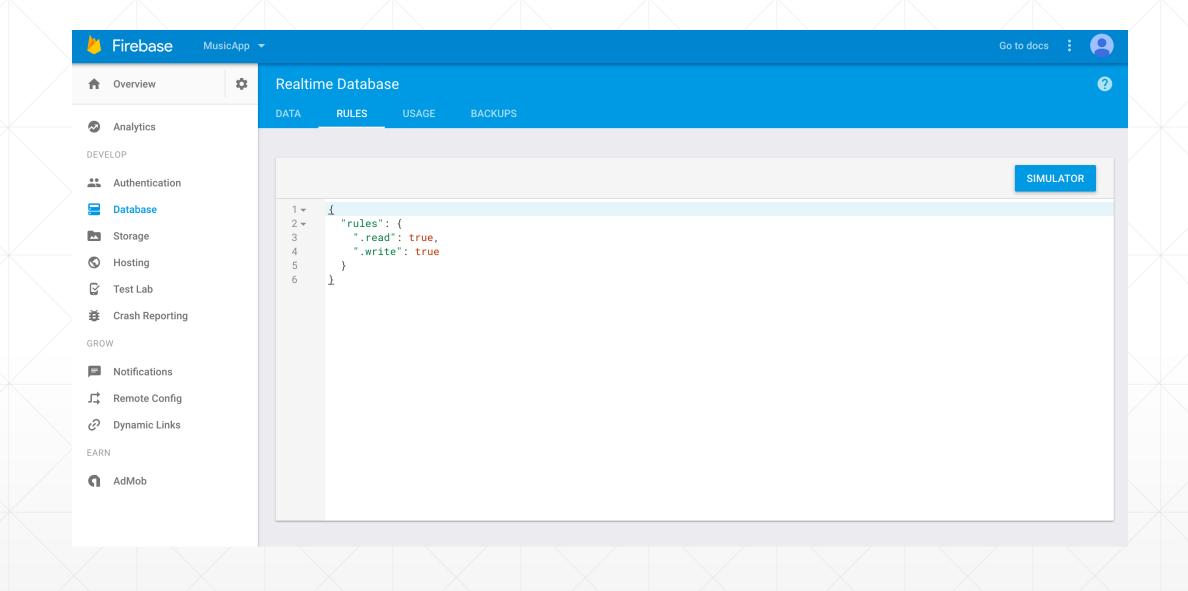
CONTINUE



```
import UIKit
import Firebase
@UIApplicationMain
class AppDelegate: UIResponder, UIApplicationDelegate {
    var window: UIWindow?
    func application(_ application: UIApplication, didFinishLaunchingWithOptions
        launchOptions: [UIApplicationLaunchOptionsKey: Any]?) -> Bool {
        // Override point for customization after application launch.
        FIRApp.configure()
        return true
```

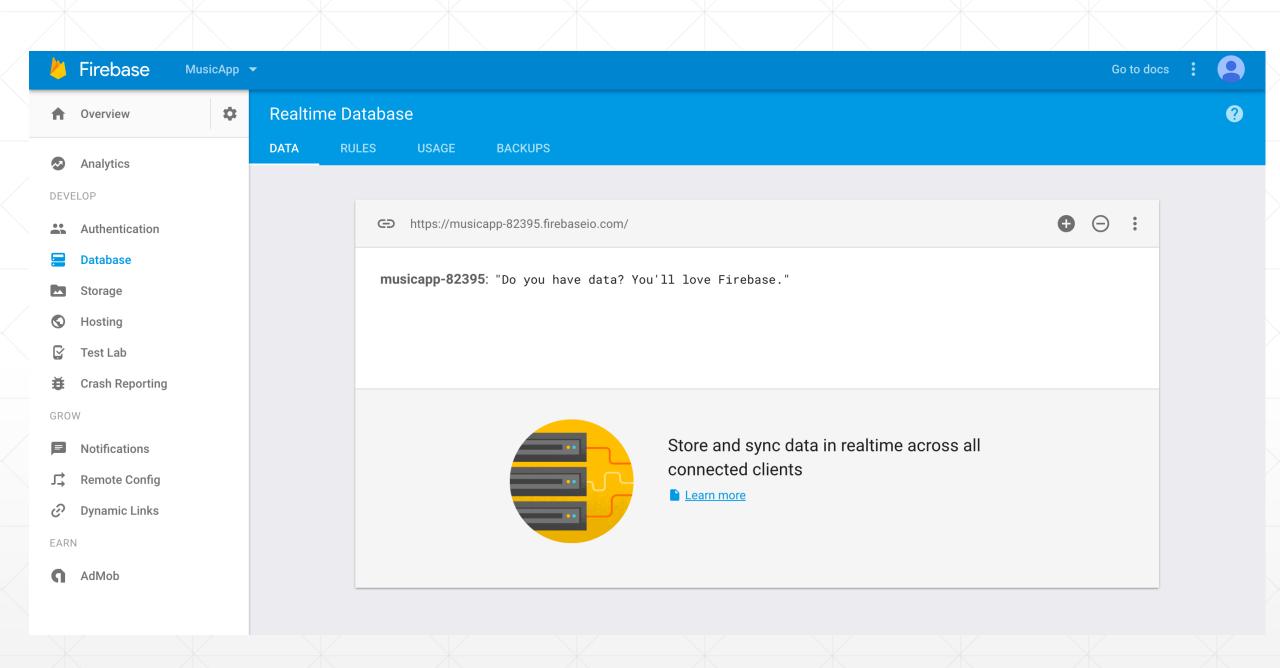
Firebase/Database

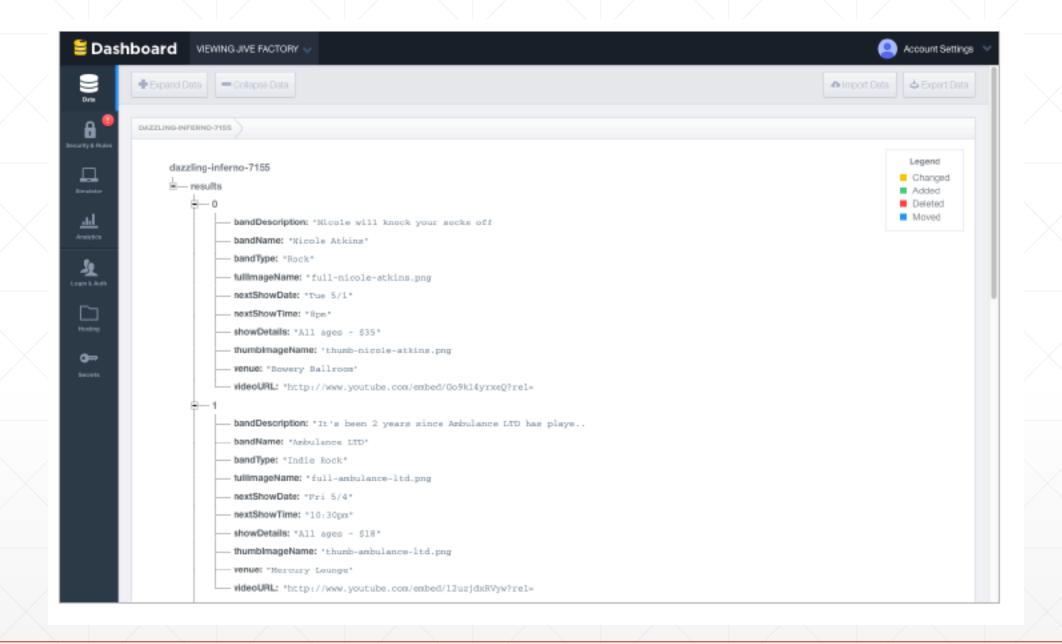
- Add Firebase/Database to podfile
- pod install
- Close and reopen workspace



```
override func viewDidLoad() {
      super.viewDidLoad()
      bandsModel.fetch()
       let myRootRef = FIRDatabase.database().reference()
      // Write data to Firebase
       myRootRef.setValue("Do you have data? You'll love Firebase.")
      myRootRef.observe(.value, with: {
              snapshot in
              print("\(snapshot.key) -> \(snapshot.value)")
      })
```

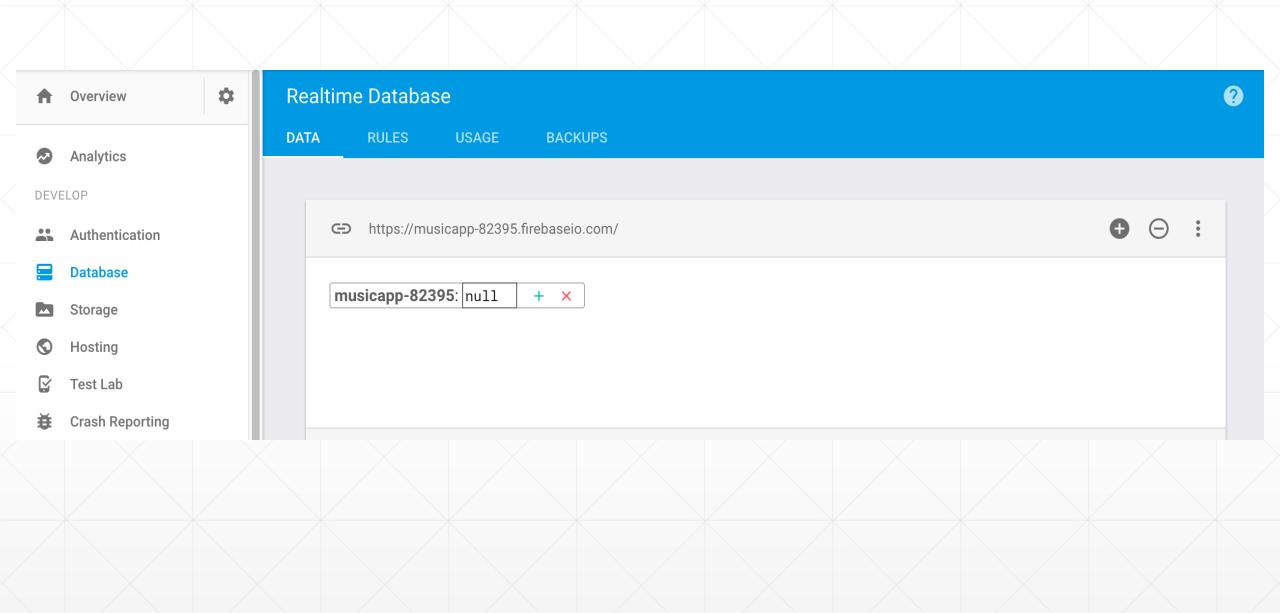
```
< 🗥
                   let bandsModel = BandsModel()
  16
  17
  18
                   override func viewDidLoad() {
                              super.viewDidLoad()
   19
   20
                              bandsModel.fetch()
   21
                              let myRootRef = FIRDatabase.database().reference()
   23
   24
                              // Write data to Firebase
   25
                              myRootRef.setValue("Do you have data? You'll love Firebase.")
   26
   27
                              myRootRef.observe(.value, with: {
   28
   29
                                         snapshot in
                                         print("\(snapshot.key) -> \(snapshot.value)")
   30
                              })
   31
   32
  33
                   }
   34
lacktriangleright lacktr
                                                                                                                       MINITYCTOS MPP DETERACE LIONA AUCOMACTOUTTA TO
                                                                                                                       disable the proxy, set the flag
                                                                                                                       FirebaseAppDelegateProxyEnabled to NO in the
                                                                                                                      Info.plist
                                                                                                                         -> Optional(Do you have data? You'll love
                                                                                                                       Firebase.)
                                                                                                                      201/-02-20 21:51:13.2/0 Musicapp[21338] <Debug>
                                                                                                                       [Firebase/Core][I-COR000019] Clearcut post
                                                                                                                       completed.
                                                                                                                       2017-02-20 21:51:13.367 MusicApp[21338:]
                                                                                                                      <FIRAnalytics/WARNING> The AdSupport Framework is
                                                                                                                       not currently linked. Some features will not
                                                                                                                      function properly. Learn more at http://goo.gl/
                                                                                                                       9vSsPb
                                                                                                                      2017-02-20 21:51:13.373 MusicApp[21338:]
                                                                                                                       ZETDAnalytics/TNEON Eirobass Analytics anabled
```

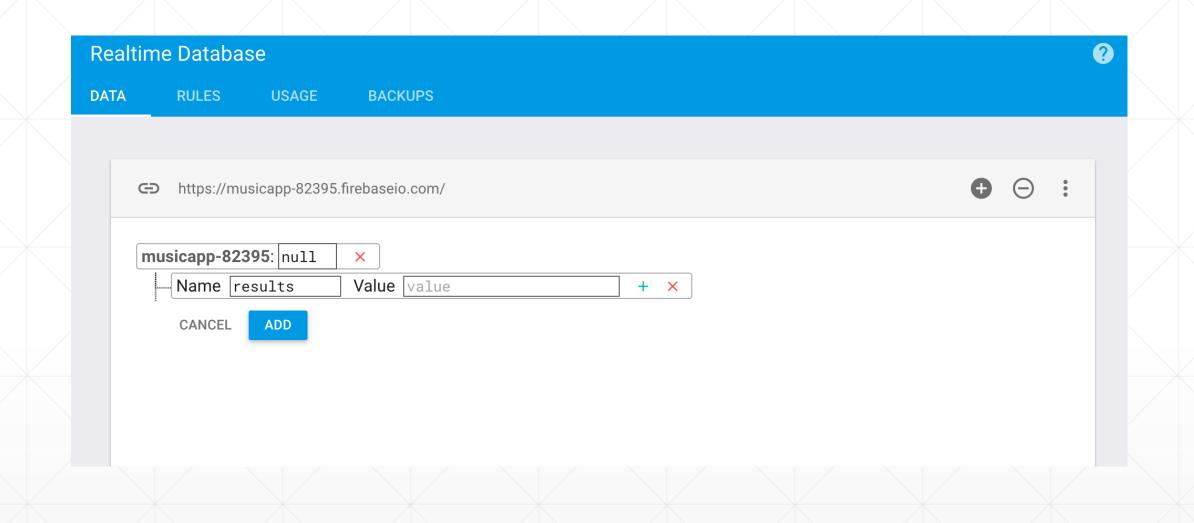


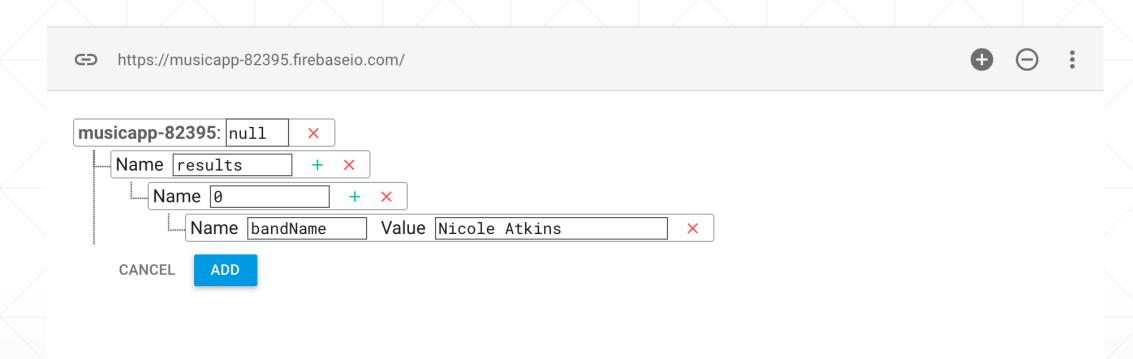


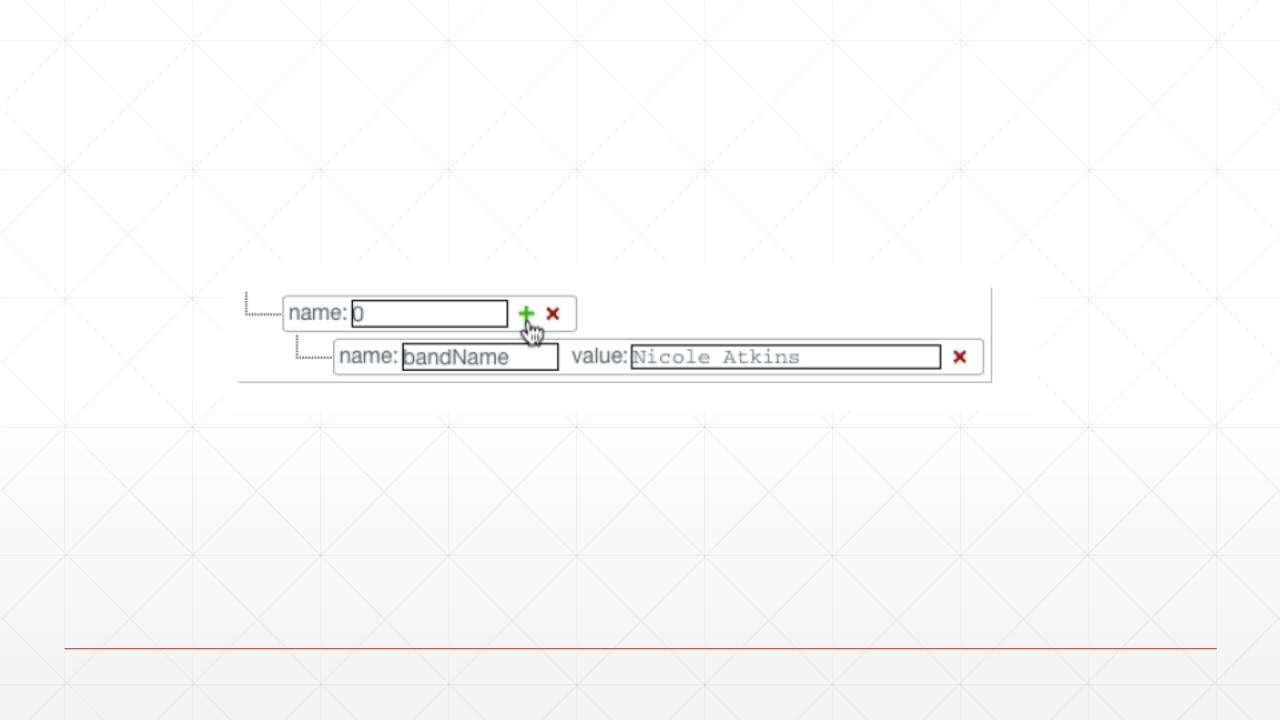
Save your work

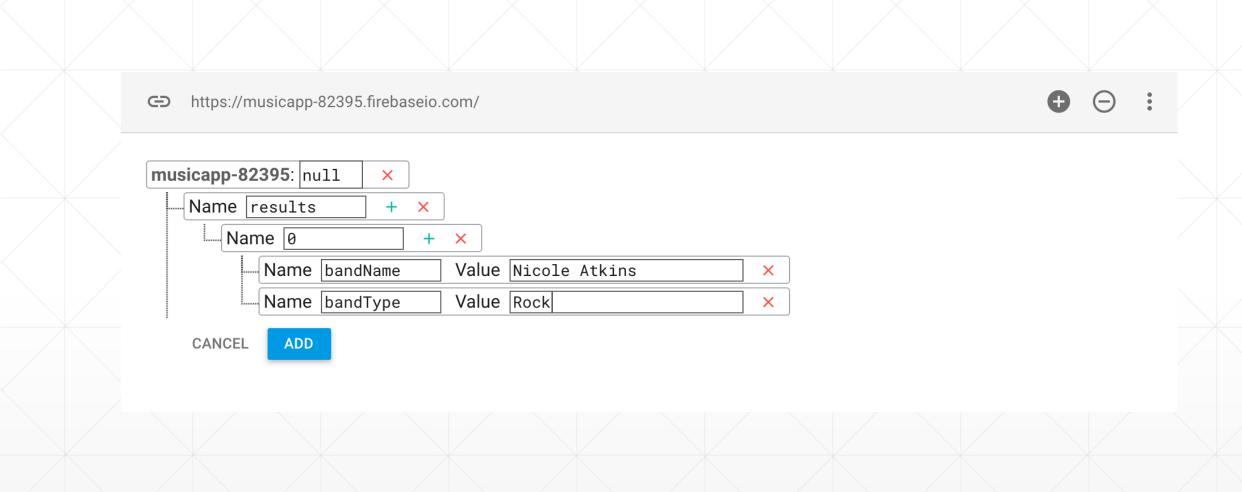
- git add.
- git commit –m "Connected Firebase"









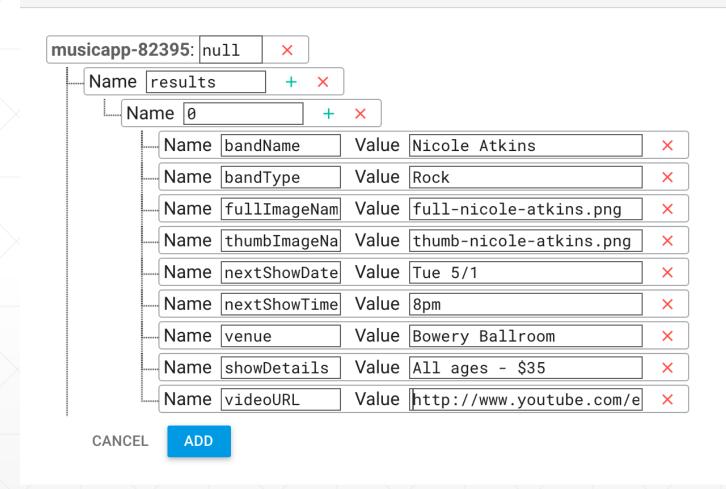


name	value
bandDescription	Nicole will knock your socks off.
fullImageName	full-nicole-atkins.png
thumblmageName	thumb-nicole-atkins.png
nextShowDate	Tue 5/1
nextShowTime	8pm
venue	Bowery Ballroom
showDetails	All ages - \$35
videoUrl	http://www.youtube.com/embed/Go9k14yrxeQ?rel=0



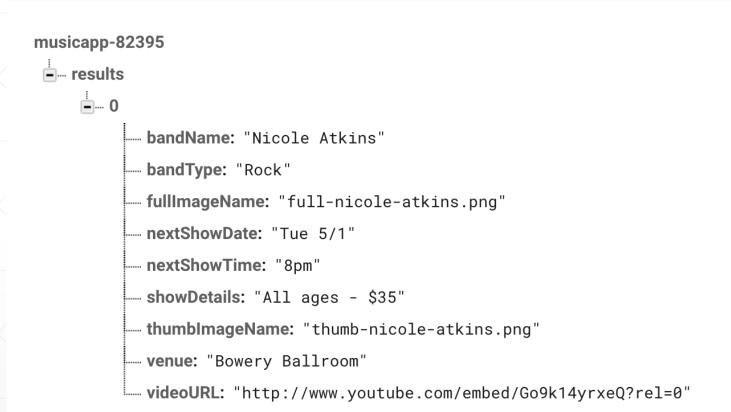












```
import UIKit
import Firebase

class BandsModel: NSObject {
   var bandDetails = [BandDetail]()
}
```

```
import UIKit
import Firebase

class BandsModel: NSObject {
   var bandDetails = [BandDetail]()
}
```

```
var bandDetails = [BandDetail]()
func fetch(complete:(Void)->Void){
```

```
var bandDetails = [BandDetail]()
func fetch(complete:(Void)->Void){
      // Get a reference to my Firebase URL
      let myRootRef = FIRDatabase.database().reference()
```

```
var bandDetails = [BandDetail]()
func fetch(complete:(Void)->Void){
      // Get a reference to my Firebase URL
      let myRootRef = FIRDatabase.database().reference()
      // Attach a closure to read the data stored at the URL
       myRootRef.observe(.value, with: {[weak self]
       snapshot in
       if let snapshots = snapshot.children.allObjects as? [FIRDataSnapshot] {
                        print(snapshot.value)
       } })
```

```
print(snapshot.value)
for snap in snapshots {
      if let array = snap.value as? NSArray {
```

```
print(snapshot.value)
for snap in snapshots {
        if let array = snap.value as? NSArray {
                for dict in array {
                        if let object = dict as? Dictionary<String, AnyObject> {
```

```
if let object = dict as? Dictionary<String, AnyObject> {
 let bandDetail = BandDetail()
 bandDetail.bandName = object["bandName"] as? String
 bandDetail.bandType = object["bandType"] as? String
 bandDetail.bandDescription = object["bandDescription"] as? String
 bandDetail.fullImageName = object["fullImageName"] as? String
 bandDetail.thumbImageName = object["thumbImageName"] as? String
 bandDetail.nextShowDate = object["nextShowDate"] as? String
 bandDetail.nextShowTime = object["nextShowTime"] as? String
 bandDetail.venue = object["venue"] as? String
 bandDetail.showDetails = object["showDetails"] as? String
 bandDetail.videoURL = object["videoURL"] as? String
```

```
bandDetail.videoURL = object["videoURL"] as? String

// A little memory management
```

```
if let strongSelf = self {
    strongSelf.bandDetails.append(bandDetail)
```

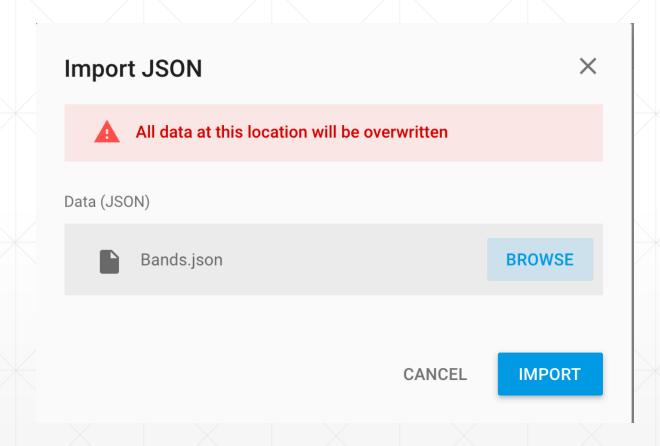
}

```
// A little memory management
                            if let strongSelf = self {
                                strongSelf.bandDetails.append(bandDetail)
                complete()
       } })
} // End of fetch() method
```

```
override func viewDidLoad() {
     super.viewDidLoad()
     bandsModel.fetch {[weak self] (Void) -> Void in
           if let strongSelf = self {
                strongSelf.tableView.reloadData()
```

```
iPhone 7 Plus - iOS 10.2 (14C89)
Carrier 🖘
            4:37 PM
            Bands
      Nicole Atkins
                            er: UITableViewController {
                            del()
                            d() {
                             FirebaseAppDelegateProxyEnabled to NU in the
                                         Info.plist
                                         Optional({
                                             results =
                                                      bandName = "Nicole Atkins";
                                                      bandType = Rock;
                                                     fullImageName = "full-nicole-
                                         atkins.png";
                                                     nextShowDate = "Tue 5/1";
                                                      nextShowTime = 8pm;
                                                      showDetails = "All ages - $35";
                                                      thumbImageName = "thumb-nicole-
                                         atkins.png";
                                                     venue = "Bowery Ballroom";
                                                      vidaalDI - "h++n+//www vautuba com/
```

Import More Data



Import More Data





Nicole Atkins Tue 5/1



Ambulance LTD Fri 5/4



Sleepies Sat 5/5



Black Angels Sun 5/6



