Configuring your apps to use HealthKit

In order for iOS to use certain technologies your apps need to have a certain collection of entitlements and certificates.

All apps have IDs

Apple is going to use this to match entitlements, rights, and provisioning to the code you write. Before you can sign your apps with the right certificates you need to have the Apple Worldwide Developer Relations Certificate Authority certificate installed. This is handled by Xcode for you in most cases. In case you need it, download it here:

```
https://developer.apple.com/certificationauthority/Ap-
pleWWDRCA.cer
```

App IDs

Up until now we've been working with a wildcard ID (*) This is convenient but doesn't allow us to tie into services like HealthKit or CloudKit. To get this working, our app has to have a very specific App ID. I've made one for the semester that has all of these technologies turned on. It's `edu.missouri.fs2014`. Mind

you that this can be shared amongst all of our demo apps in class, but you will want your own App ID for your projects.
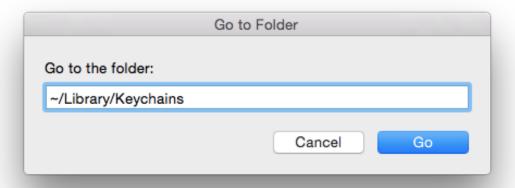
Your project needs its own App ID

We will have to make your App ID for you. It will be up to you to modify your project to use that App ID. So think about that, let me know what you want it to be.
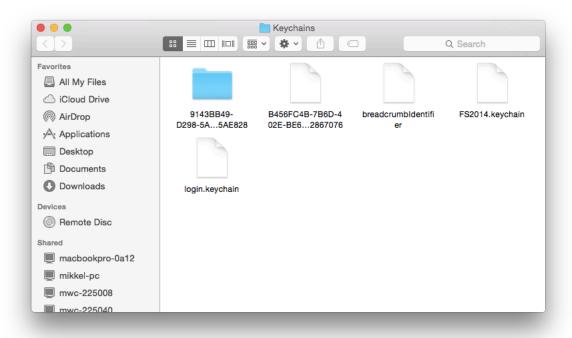
Import a keychain

I've done the work to make a public and private key for along with a developer certificate. All you have to do is add it to Keychain Access. You can download this from: `https://www.dropbox.com/s/nr0mk9y2mvksdb3/FS2014.key-chain?dl=0`

Copy keychain to your Library

Go down to your dock and click on Finder. Once you see "Finder" in the top left of your screen, press **Command** + **Shift** + **G** You'll see a screen like so:
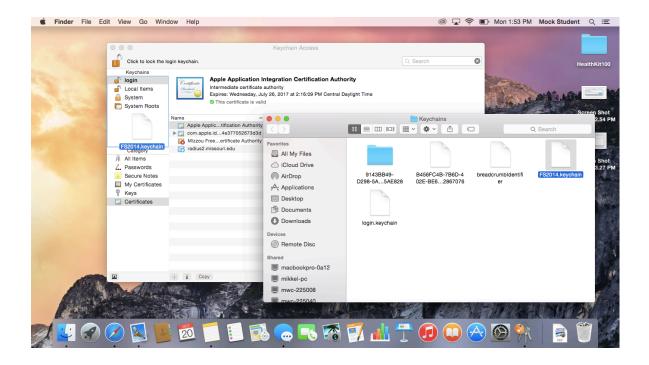
You will navigate to ~/Library/Keychains. We are going to the folder like this because ~/Library is hidden from the finder by default. Drop the keychain file into this folder. Next you'll need top add it to the Keychain Access app.

Open Keychain Access

You can open Keychain Access by pressing **Command** + **Space** to bring up Spotlight. Type Keychain Access and press **Return**. What I didn't know for the longest time is that you can have multiple keychains in your system and Xcode will search through them to find the right certificates when building your app. Drag your keychain from finder into the sidebar of Keychain Access to add it. The password associated with this keychain is `Tamale24?` (with the question mark.)
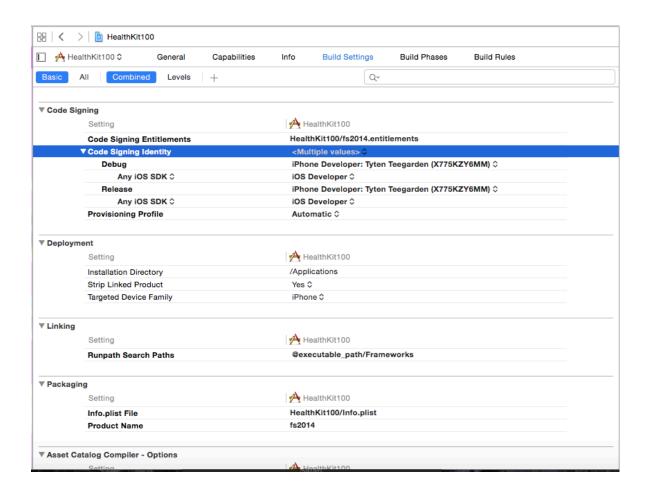
Configure Xcode

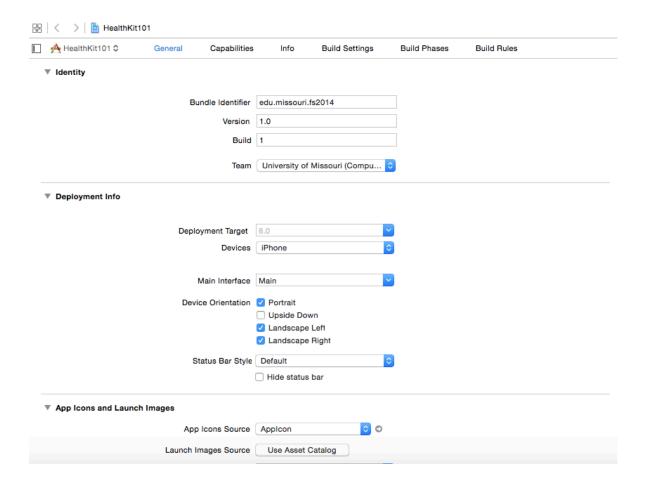That's what you need to do for keychains, now you can configure Xcode to use the App ID.

Use the Developer Profile

You'll need to chose which identity you'll use to sign the app. Go to your target settings and pick the identity you just imported.
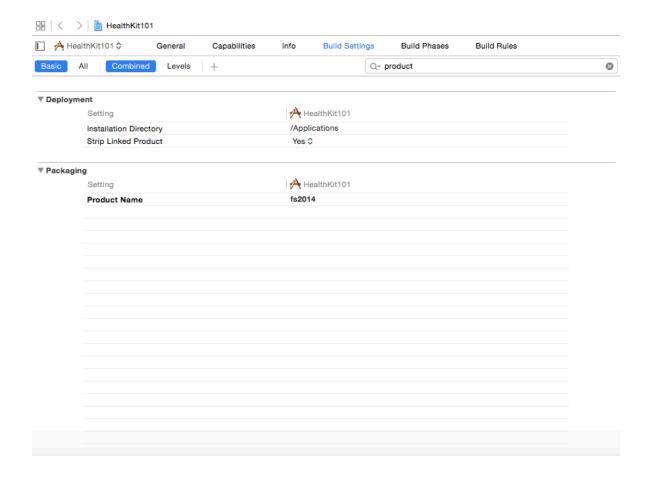
Set the App ID

To set the App ID you'll need to edit the product name as well as make sure you use the same company identifier. This is a reverse domain name (We're using edu.missouri).

In order to set the product name, go to Build Settings, enter "product" in the search field, and then replace the product name with fs2014.

▯ 🔺 HealthKit101 ⬍	General	Capabilities	Info	Build Settings	Build Phases	Build Rules

Basic | All | Combined | Levels | +   🔍▾ product   ⊗

▼ **Deployment**

Setting	🔺 HealthKit101
Installation Directory	/Applications
Strip Linked Product	Yes ⬍

▼ **Packaging**

Setting	🔺 HealthKit101
Product Name	**fs2014**

Build and run

At this point you should be ready to build and run your app. Remember, this will use the same App ID that we are using all semester, so apps using this ID will have access to the same HealthKit store, the same iCloud info, and the same CloudKit databases. Once you're done you should see a view like this in the Capabilities pane of your project settings.

▼ ♡ **HealthKit**   `ON`

Steps: ✔ Add the "HealthKit" entitlement to your App ID
       ✔ Add the "HealthKit" key to your info plist file
       ✔ Add the "HealthKit" entitlement to your entitlements file
       ✔ Link HealthKit.framework