

This is a tutorial on how to run your iOS app that you created in Xcode on an iPad or iPhone. This works for the iPads in the Mac Lab.

Make sure you have the following:

1. You have been approved in the iOS Developer University Program
2. You have a working app that compiles cleanly
3. You have an iPad or iPhone that has been added to the iOS Developer University Program
4. You have a certificate in the iOS Developer University Program
5. You have an AppID assigned to your app
6. You have a provisioning profile assigned to your certificate

**Step 1:**

Go to

<https://developer.apple.com/ios/manage/overview/index.action>

**Step 2:**

Set up your AppID

**Step 3:**

Choose an Apple device, make sure it is added to the iOS Developer University Program.

**\*\*Make sure you plug your iPad/iPhone via USB to your Mac - Xcode will do the rest and detect it\*\***

**Step 4:**

Make sure you have a valid development certificate on iOS Developer University Program

**Step 5:**

Generate your provisioning profile and add it to Xcode

## Name your Provisioning Profile

A Provisioning Profile is a collection of your App ID, Apple device UDID, and iOS Development Certificate that allows you to install your application on your device.



Enter a common name or description for your Provisioning Profile using alphanumeric characters. The description you specify will be used throughout the Provisioning Portal to identify this Provisioning Profile.

Profile Description:

You cannot use special characters such as @, &, \*, " in your description.

App ID: **test**

Device: **Mac Lab iPad1**  
7c46710f6b4254c0c8f7d8a40d6901b532997fef

Certificate Name: **Johnson Liu**

Drag your downloaded provisioning profile to Xcode in the dock

Connect your device to your Mac and drag the downloaded Provisioning Profile into the 'Organizer' window within Xcode. This will automatically install the .mobileprovision file in the proper folder.



Xcode Organizer

## Step 6: Download and install your certificate to your keychain on your Mac

### Step 1: Download

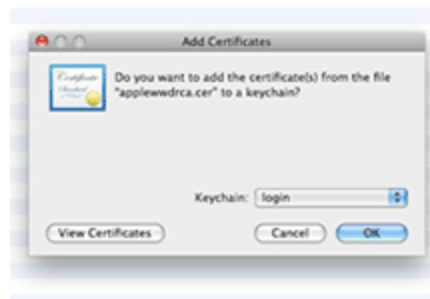
Download your iOS Development Certificate (.cer) file to your Mac.



! If you have already downloaded and installed your Development Certificate skip Step 2 and continue to Step 3.

### Step 2: Install

On your Mac, double-click the downloaded .cer file to launch Keychain Access and install your certificate.



### Step 3: Verify your private and public keys in Keychain Access

Verify the iOS Developer private and public keys are paired together in the Keychain Access application to ensure your Certificate is properly configured on your Mac.

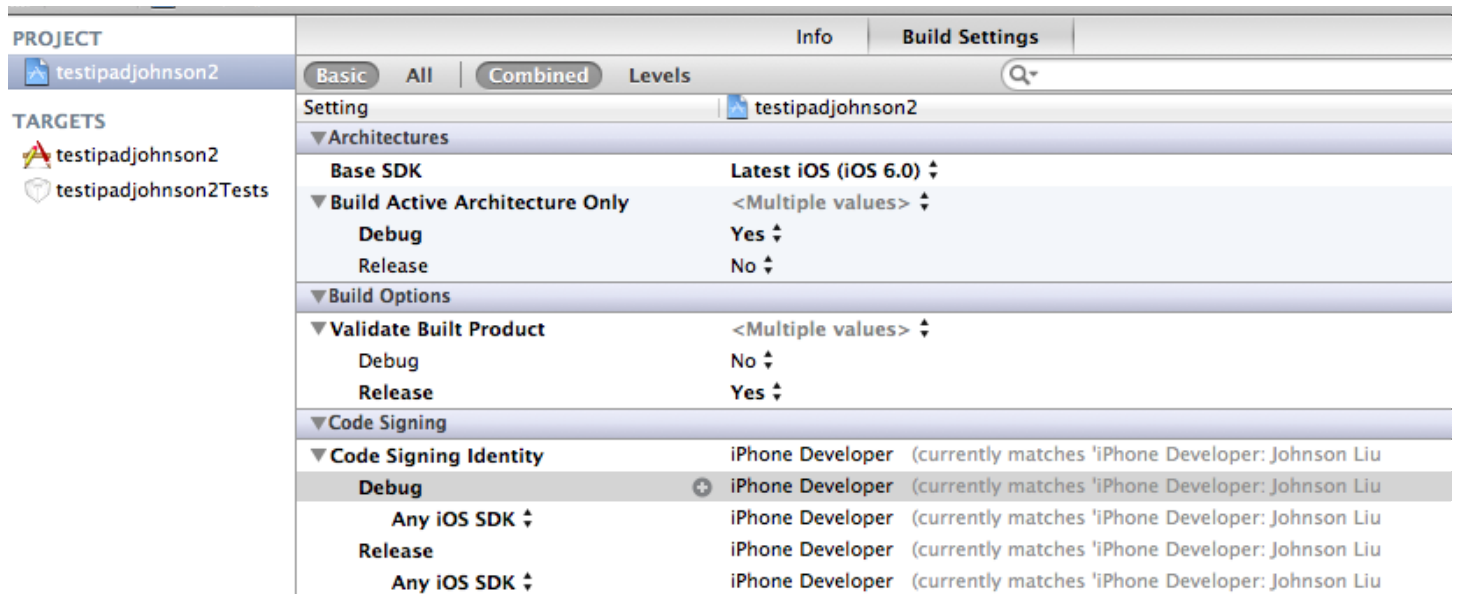


Keychain Access on your Mac

## Step 7: You are all done!

## Tips (IMPORTANT)

1. Force quit (command + q) Xcode everytime you change settings so that Xcode can load fresh
2. Make sure you have no duplicate certificates or keys in your “Keychain Access” application
3. Within Xcode, go to Window -> Organizer -> Verify your device has a provisioning profile
4. Within Xcode, make sure you choose the correct “code signing identity”



## Common Errors:

1. How do I resolve the CodeSign error: Certificate identity appears more than once in the keychain?

[https://developer.apple.com/library/ios/#technotes/tn2250/\\_index.html#apple\\_ref/doc/uid/DTS40009933-CH1-TNTAG3](https://developer.apple.com/library/ios/#technotes/tn2250/_index.html#apple_ref/doc/uid/DTS40009933-CH1-TNTAG3)

2. how to fix iphone code signing errors

<http://www.codza.com/how-to-fix-iphone-code-signing-errors>