

## Environment Configurations/Install Instructions

### Required Hardware:

1. iPad or iPhone running ios v9.3.2 or later.

### Required Software:

1. XCode 7.3.1 or later
2. CocoaPods: <http://cocoapods.org/>

### Required Dependencies:

1. Card.io iOS Core Source: <https://github.com/card-io/card.io-iOS-source>
2. Card.io iOS DMZ Source: <https://github.com/card-io/card.io-dmz>
3. Tesseract iOS Source: <https://github.com/gali8/Tesseract-OCR-iOS>
4. OCRE Source

### Setup:

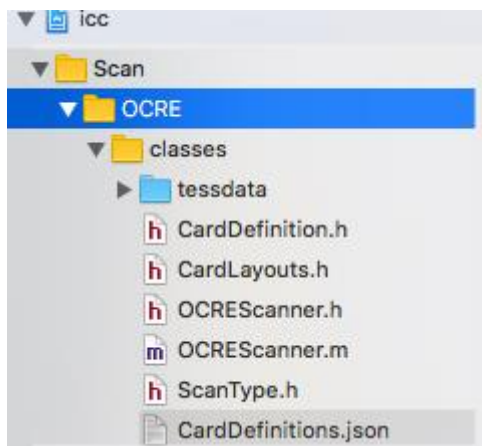
1. Create a folder “env” in the directory of your choosing.
2. Download “Tesseract-OCR-iOS-master.zip”
3. Extract the “Tesseract-OCR-iOS-master” to “env”
4. “cd” into “env”
5. Run “sudo git clone <https://github.com/card-io/card.io-iOS-source.git>”
6. “cd” into the card io source directory created with above command
7. Run “sudo vim .git/config”
8. Add to the bottom of the file:  
[submodule “dmz”]  
    url = <https://github.com/card-io/card.io-dmz.git>  
“Esc + :wq” to save
9. Run “sudo git submodule update --init --recursive”
10. Cd to env/
11. Run “sudo chmod -R 777 \*”
12. Compile the icc project with xcode to make sure everything was done right.
13. Modify the contents of “Tesseract-OCR-iOS-master/Podfile” to be:

```
source 'https://github.com/CocoaPods/Specs.git'
workspace 'Tesseract-OCR-iOS'
xcodproj 'TestsProject/TestsProject.xcodproj', 'Coverage' => :debug

target 'TestsProjectTests' do
    pod 'Kiwi', '~> 2.3.1'
    pod 'TesseractOCRiOS', :git => 'https://github.com/gali8/Tesseract-OCR-iOS.git'
end
```

14. Open the terminal and from the **"env/Tesseract-OCR-iOS-master/"** directory run the command **"pod install"**
15. Open **"Tesseract-OCR-OCR.iOS.xcworkspace"** with XCode.
16. From within XCode, click File → "Add Files to ..." and select **"/env/card.io-iOS-source-master/icc.xcodeproj"**
17. Click on the **"Scan"** folder and select **"New Group"**. Name the group **"OCRE"**
18. Click on the **"OCRE"** folder and select **"New Group"**. Name the group **"classes"**
19. Take the files from **"classes"** directory in **our repo** and the **tessdata** directory and import them to **"classes"** folder in **xcode** by drag and dropping, selecting **"icc and Cardio"** and clicking OK.  
Note: when dragging tessdata make sure you add it as a **"folder reference"**
20. Add **tessdata** to **"Copy bundled resources"** under Build phases for the Cardio target. (it may already be there)

When importing files it should appear like this:



21. Copy the files from our repo under **"cardio"** to the **"Classes"** directory in **".../env/card.io-iOS-source-master/Classes/"** replacing the existing files.
22. Add the OCRE classes to your project search path with Cardio lib as the target.
23. Select the icc, cardio, and the other icc target and under **"Build Settings→Architectures→Build Active architecture Only"** to **NO**
24. Select the **Tesseract OCR iOS** project and under set **"Build Settings→Architectures→Build Active architecture Only"** to **NO**
25. Add **"armv7s"**, **"armv7"**, and **"arm64"** to Architectures in the same section (using + button, keep other archs).
26. Clean and Rebuild **Tesseract OCR iOS**
27. Under icc AND Cardio targets add **"Build Settings→Linking→Other Linker Flags"** add **"-ObjC"**, **"-lc++"**, **"-lz"**, and **"-lstdc++"**
28. Select the Cardio target and under **"Build Phases→Linked Frameworks and Libraries"** add **"TesseractOCR.framework"**
29. Set **"icc"** as your build/main project with the dropdown next to the Start/Stop buttons.
30. Clean and rebuild icc.

31. Change your “Build Settings” accordingly for your apple developer account and you should now be able to deploy to your iOS device or TestFlight.
32. Your projects should be set to compile for all architectures. This is now required by Apple.

NOTE: Based on your environment you may have to do additional configuration. In this case please refer to Card.io Installation Instructions on their git page.