Date

Readme

# Server

I have used Perfect-Swift-Server for the backend, and MySQL for Database. There are the following prerequisites.

* Swift 3.0.2 and Xcode 8 to upper.
* MySQL 5.7 to upper
* macOS 10.12 to upper

Follow the following instructions to setup the server.

## Setup Homebrew.

### Install and setup Homebrew if you don’t have already on your MAC. Go to and follow the instructions at <https://brew.sh/> it set it up.

## Setup MySQL

If you don’t have mysql setted up on your mac via Brew/Homebrew then follow this section. Note that, you need to install MySQL via **Brew** only, not via MAMP or XAMPP.

If you have already MySQL setted up via MAMP or XAMPP or MySQL installer then probably Homwbrew version of MySQL it won’t work. Because Homebrew version of MySQL may get confused with other instance of MySQL. In that case please take a backup of your database and remove all of the instances and installations of My SQL. Because homebres mysql server get confused and won’t work.

Follow the instructions to create a fresh setup of MySQL via homebrews. Also you can check this link >> <http://stackoverflow.com/a/38687225/2089253>

### Remove previous MySQL installations completely. Enter the following commands on your terminal.

killall -u username

brew remove mysql

brew cleanup

sudo rm /usr/local/mysql

sudo rm -rf /usr/local/var/mysql

sudo rm -rf /usr/local/mysql\*

sudo rm ~/Library/LaunchAgents/homebrew.mxcl.mysql.plist

sudo rm -rf /Library/StartupItems/MySQLCOM

sudo rm -rf /Library/PreferencePanes/My\*

launchctl unload -w ~/Library/LaunchAgents/homebrew.mxcl.mysql.plist

rm -rf ~/Library/PreferencePanes/My\*

sudo rm -rf /Library/Receipts/mysql\*

sudo rm -rf /Library/Receipts/MySQL\*

sudo rm -rf /private/var/db/receipts/\*mysql\*

### Reinstall MySQL server with Homebrew. Enter the following command on the terminal

brew doctor

brew update

brew install mysql

unset TMPDIR

mysqld -initialize --verbose --user=whoami --basedir="$(brew --prefix mysql)" --datadir=/usr/local/var/mysql --tmpdir=/tmp

mysql.server start

brew services start mysql

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## Connect to Database

Now it’s time to connect to database and create data schema. Enter to following commands on the MAC terminal after successfully starting MySQL server.

### **mysql -u root -h 127.0.0.1 -p**

Here `root` is username and `127.0.0.1 ` is host

Now, if it asks for password, just hit ENTER because `root` doesn’t need any password in this case.

### **CREATE DATABASE crossover\_database;**

It will create a database named `crossover\_database ` for `root` user

### **INSERT INTO person\_items VALUES ('UnitTestSSN','Test User','Male',9857286387,0);**

This insersion in mandatory to run the unit test cases and successfully pass.

## Setup API Server

AT this point you will need to setup and run API Server

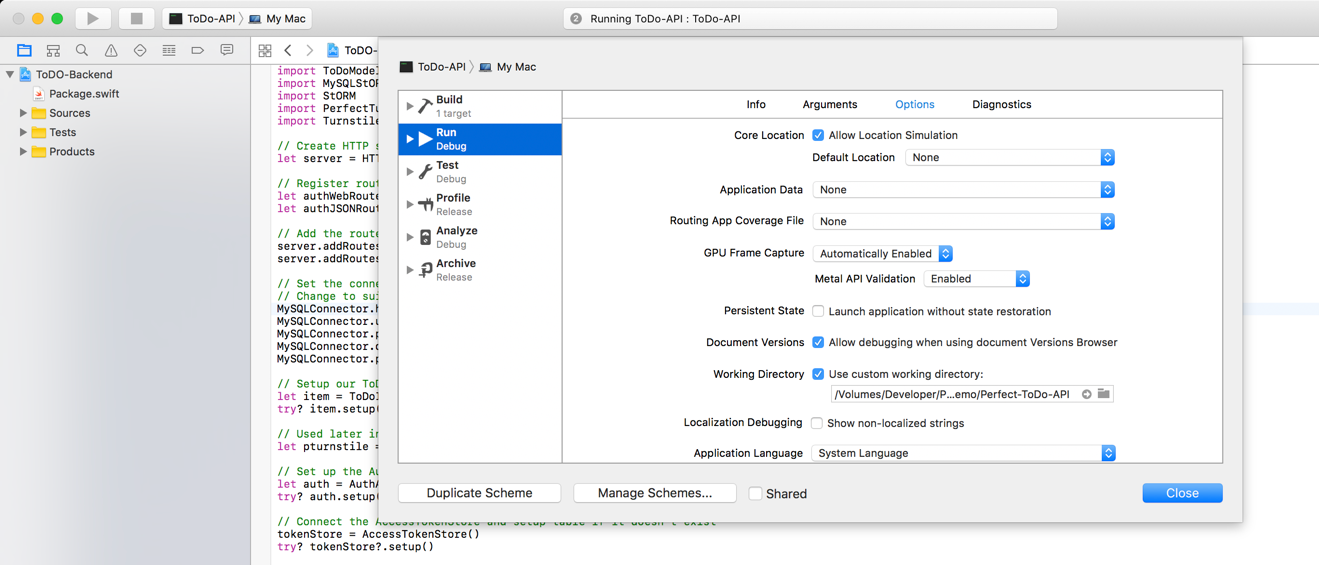
### A t this point in time you will need to edit the **mysqlclient.pc** file located here:

### **/usr/local/lib/pkgconfig/mysqlclient.pc**

### Remove the occurrence of **"-fno-omit-frame-pointer**". This file is read-only by default so you will need to change its permissions first.

## Setup Xcode-Server project.

Goto …>>Server>> FamilyTree-Backend directory. Open “FamilyTree-Backend.xcodeproj” file. You MUST change to the executable target(To the BLACK one between these 2 target) AND setup a custom working directory for its scheme in order for the database to create and work properly.



## Configure API Server Xcode Project

## On your MAC, go to System Preferences >> Network >> Select your connected ISP/connection >> Click “Advanced” tab >> Click “TCP/IP” tab >> And look for and copy IPv4Adresses.

## This is gonna be your HTTP API server address.

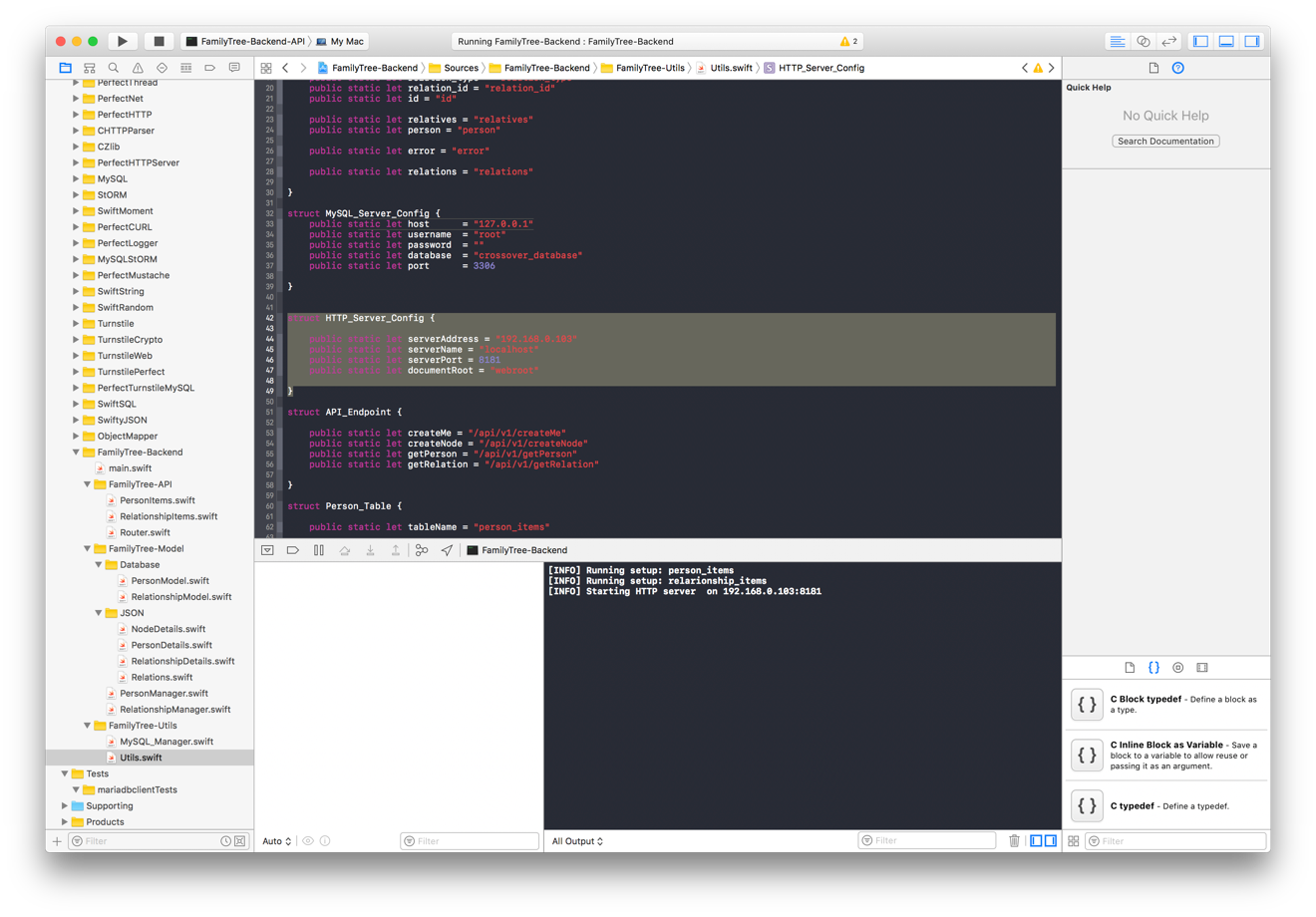
## Copy and pest this IPv4 address into **Utils.swift >> struct HTTP\_Server\_Config >> serverAddress** field.

## 

## Start API server

Run the target named “**FamilyTree-Backend-API**”.

Upon successful running the server you will see something like the following screenshot on the console.



# iOS App(Swift)

I have used Swift for the writing iOS App. There are the following prerequisites.

* Swift 3.0.2 and Xcode 8 to upper.
* iOS 8 to upper
* macOS 10.12 to upper
* Cocoa pods Latest

## Installing Cocoa pods and it’s dependencies.

### If you don’t have CocoaPods installed already then follow [this link](https://guides.cocoapods.org/using/getting-started.html) to install it.

### Now you need to install the dependencies for the project.

### To do this Open the terminal and and navigate to the project root directory where “FamilyTree.xcodeproj” file resides.

### Now enter the “pod install" on the terminal and hit ender to install the dependencies.

### Then open “FamilyTree.xcworkspace” file

## Running the app

## Now just need to set Server IP. Copy and pest that(the one, user to start the HTTP server while setting up the server) IPv4 address into **Utils.swift >> struct HTTP\_Server\_Config >> serverAddress** field.

## How just hit and run the app

# ANdroid App

I have used Java for the writing Android App. There are the following prerequisites and tools and it’s version which I have used.

* Android Studio 2.3 to upper.
* Gradle 2.3 to upper.
* macOS 10.12 to upper
* Java 8
* Minimum SDK version 21
* Target and Compile SDK version 25

## There is not much things to setup to run Android app. Just open the project with android studio. It will resolve the dependencies automatically and prompt you to download necessary tools. Once finished, now need to set Server IP. Copy and pest that(the one, user to start the HTTP server while setting up the server and for iOS app) IPv4 address into **ServerConfig.java >> public static final String IP\_ADDRESS** field.

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## How just hit and run the app on your connected device.

## **Please Contact with me at this email (**[**partho.maple@gmail.com)**](mailto:partho.maple@gmail)) **for anything.**