



User guide

Vopti application for iOS devices

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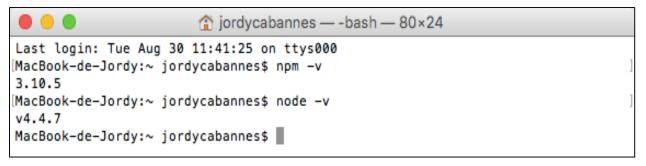
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I Requirements

- 1- You need to install Xcode on your Apple computer, you can download it on the AppStore via the link: https://itunes.apple.com/us/app/xcode/id497799835?mt=12
- 2- You need to install node.js and npm. You can download them on https://nodejs.org/en/
- 3- When you have installed node.js and npm, to check that they are well installed, open a terminal and input



You should have something like that



4- You have to install cordova. In a terminal just write

\$ sudo npm install –g cordova

5- You should have an Apple developer account. If you do not have one, you can create it on :

https://idmsa.apple.com/IDMSWebAuth/login?appldKey=891bd3417a7776362562d 2197f89480a8547b108fd934911bcbea0110d07f757&baseURL=https://developer.apple.com/&path=%2Faccount%2F&rv=1

II Installation

- 1- Download the directory Vopti_app from https://github.com/JordyCabannes/Vopticonnect_application
- 2- Unzip the file downloaded
- 3- Create a Cordova Project, go into your Desktop or your Documents folder thanks to a terminal

\$ cd Documents

or

\$ cd Desktop

and write

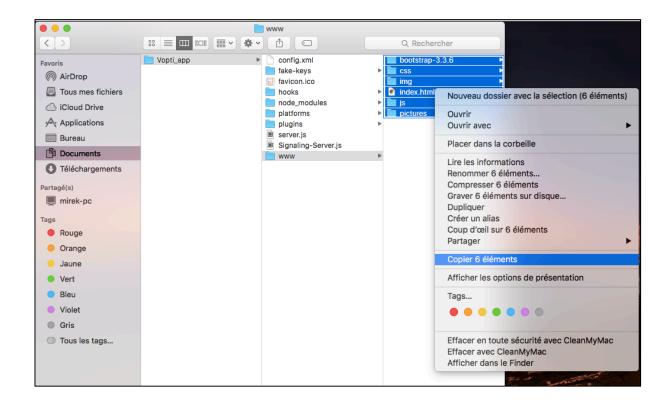
\$ cordova create appName com.example.appName AppName

- *appName is the name of the application folder
- * com.example.appName is the ID of the application

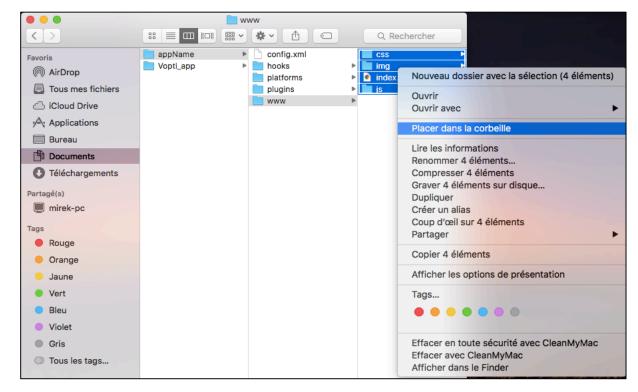
All the previous steps are explained at the address http://cordova.apache.org/docs/en/latest/guide/cli/index.html

4- Now, with the Finder, go into the directory that you downloaded. Afterwards go into its directory "www" and copy all the files

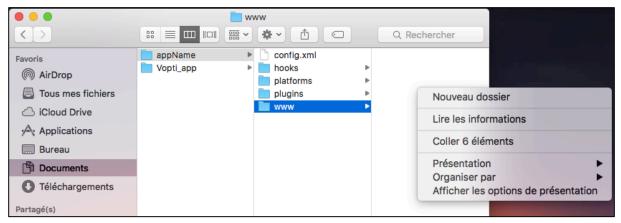
^{*}AppName is the visible name of the application



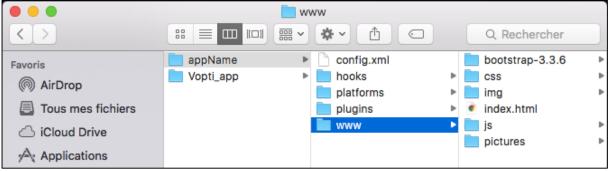
5- Go into your cordova project and delete all the files and repertories present in the www folder.



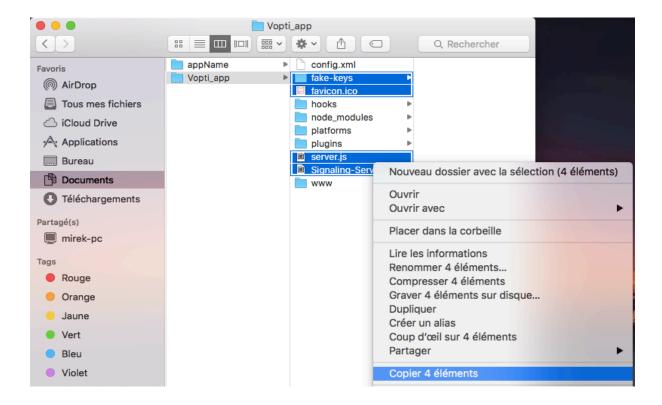
6- Now you can paste the files and repertories in this empty www folder.



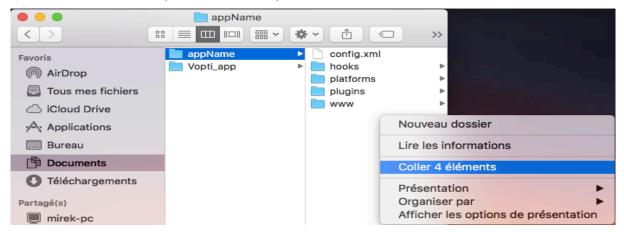
You will obtain something like this



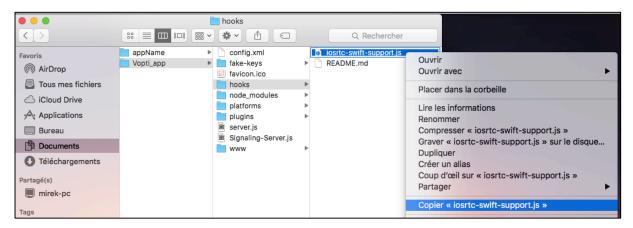
7- With the Finder, go into the directory that you downloaded. Afterwards copy the files server.js, Signaling-Server.js, favicon.ico and the repertory fake-keys.



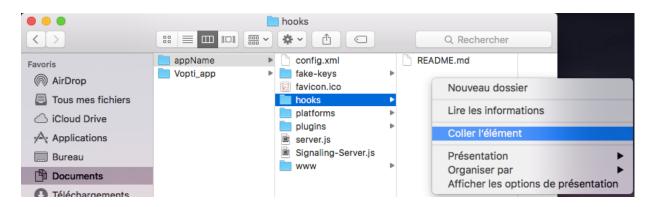
8- Paste them into your Cordova Project.



9- With the Finder, go into the directory that you downloaded. Afterwards go into hooks folder and copy the file iosrtc-swift-support.js



10- Paste this file into the hooks folder of your Cordova Project



11- Open the config.xml file of your project and add this line just below the line 24:

<hook type="after_platform_add" src="hooks/iosrtc-swift-support.js" />

You will get something like this

12 - In a terminal, write ifconfig

\$ ifconfig

and copy your IP address

```
MacBook-de-Jordy:Documents jordycabannes$ ifconfig
[lo0: flags=8049<UP,LOOPBACK,RUNNING,MULTICAST> mtu 16384
        options=3<RXCSUM,TXCSUM>
        inet6 ::1 prefixlen 128
        inet 127.0.0.1 netmask 0xff000000
        inet6 fe80::1%lo0 prefixlen 64 scopeid 0x1
        nd6 options=1<PERFORMNUD>
gif0: flags=8010<POINTOPOINT,MULTICAST> mtu 1280
stf0: flags=0<> mtu 1280
en0: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
        options=27<RXCSUM,TXCSUM,VLAN_MTU,TS04>
        ether d4:9a:20:f8:94:ac
        nd6 options=1<PERFORMNUD>
        media: autoselect
        status: inactive
en1: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
        ether 34:15:9e:95:84:d8
        inet6 fe80::3615:9eff:fe95:84d8%en1 prefixlen 64 scopeid 0x5
                         netmask 0xffffff00 broadcast 192.168.0.255
        inet 192
        nd6 eptions-1<PERFORMNUD>
        media: autoselect
        status: active
p2p0: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> mtu 2304
        ether 06:15:9e:95:84:d8
        media: autoselect
        status: inactive
MacBook-de-Jordy:Documents jordycabannes$ 📗
```

13- Open the file server.js of your project and give your IP address to the variable serverIP

- 14- With the finder, go into the "www" folder and in the "js" folder. Open the file "index.js". Go to the line 161, and give the value "https://your_ip_address " to the variable connection.socketURL.
- 15- In a terminal go to your Cordova project, and write:

```
$ cordova plugin add cordova-plugin-iosrtc
$ cordova plugin add cordova-plugin-whitelist
$ sudo npm init
```

For "sudo npm init", you have to enter some information for your app. First of all, a "name" with lowercase. After you can press the "enter" button until the end of this "sudo npm init" command.

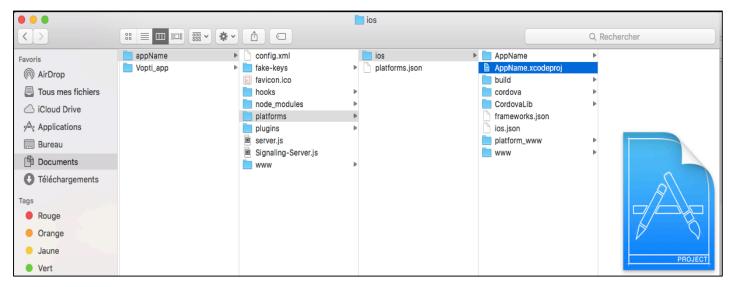
Afterwards, you can write these following command lines.

```
$ sudo npm install
$ sudo npm install Xcode
$ sudo npm install express
$ sudo npm install socket.io
```

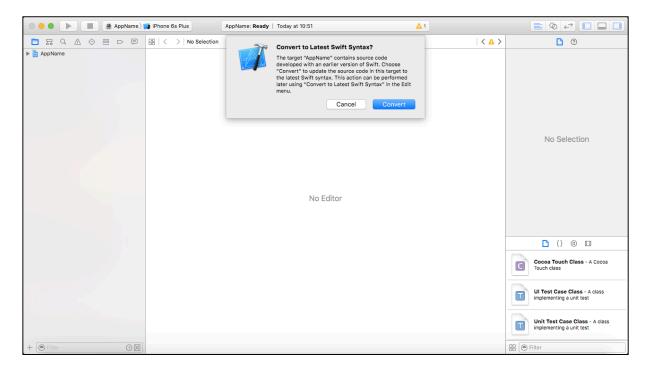
16- Now write

```
$ cordova platform add ios
$ cordova prepare
$ cordova build ios
```

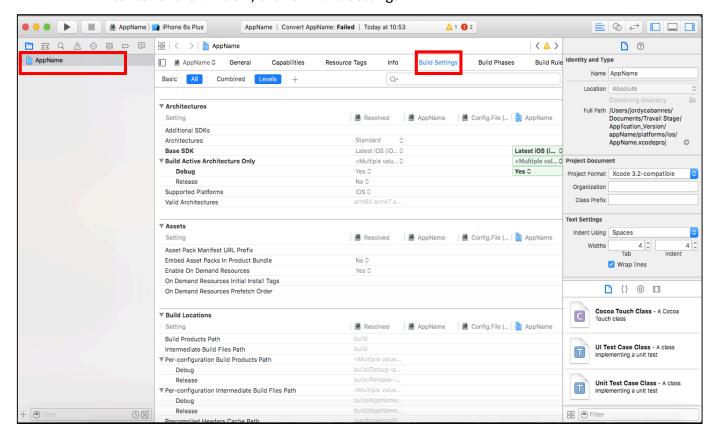
17- Go into the folder of your project, now if you open the platform repository you can see an ios repository. Open it and double click on the file "AppName.xcodeproj"



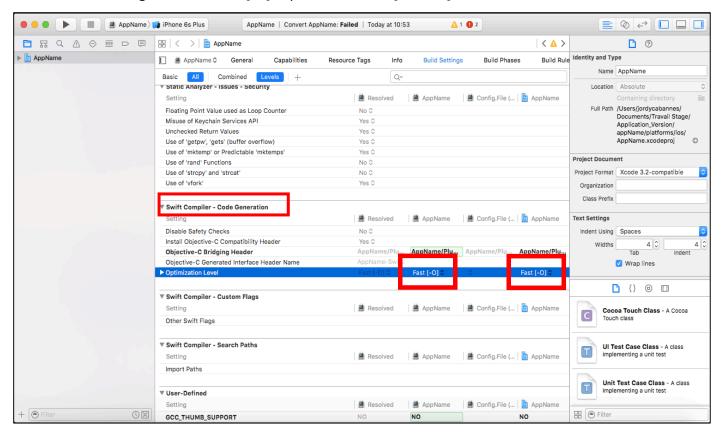
18- Now, Xcode should be open, you have to click on the button "Convert" of the popup which appears, then "Next", "Next" again and "Done".

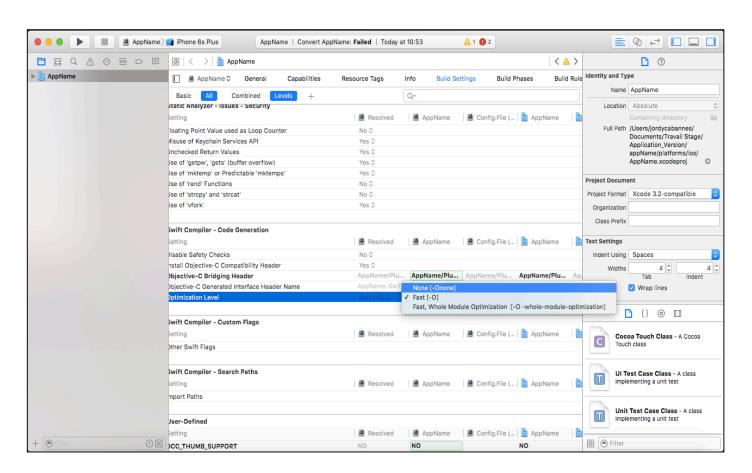


19- Click on the folder of your project on the right of the Xcode window. Now in the center of the window, click on Build Settings

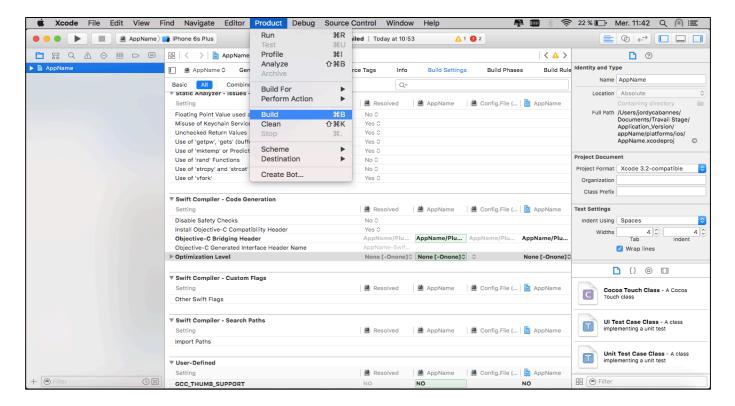


20- Scroll down until to see "Switch Compiler – Code Generation". Then you will have to change the two "Fast[-Q]" options to "None[-Onone]"



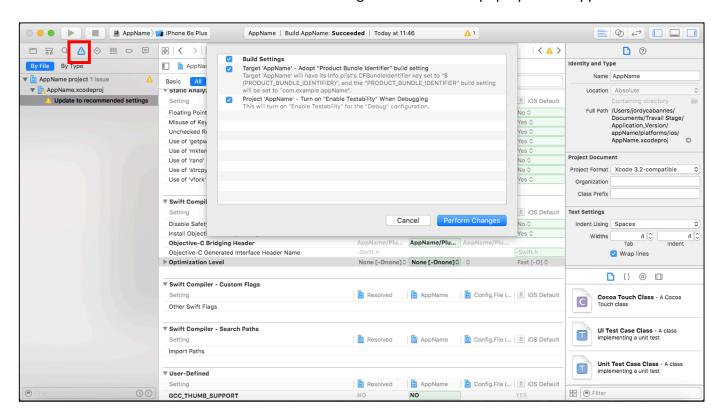


21- In the task bar click on "Product" and "Build".

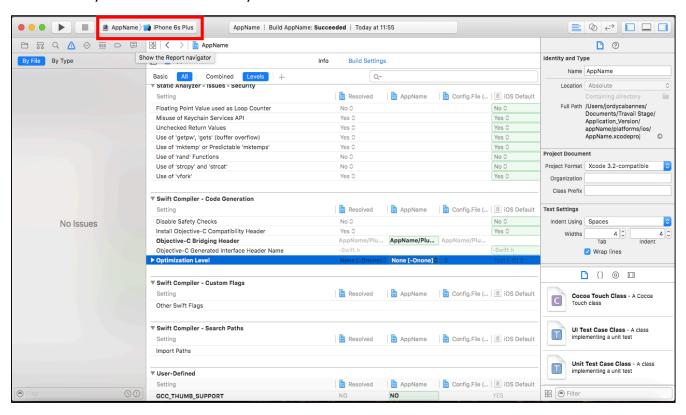


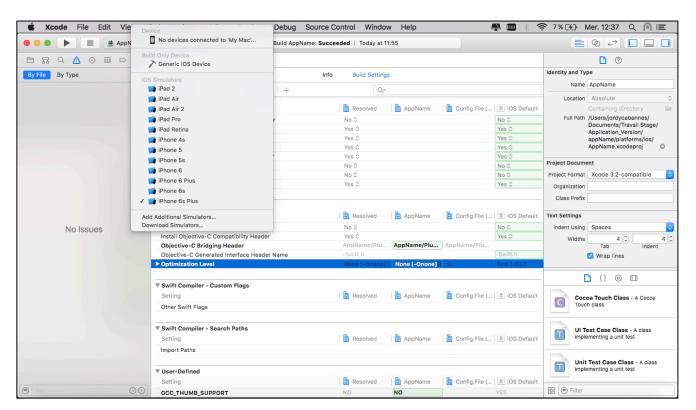
22- Click on the Warning icon. Then click on "Update to recommended settings".

Afterward click on the "Perform Changes" button of the pop-up which appears.



- 23- Another pop-up will appear, just press "enter". After, in the task bar click on "Product" and "Build".
- 24- Now for testing, choose the iOS device for the test in the dropdown menu or plug in your IOS device * with USB wire and it will appear in the dropdown menu. After that you have to click on Play button to launch the simulator.





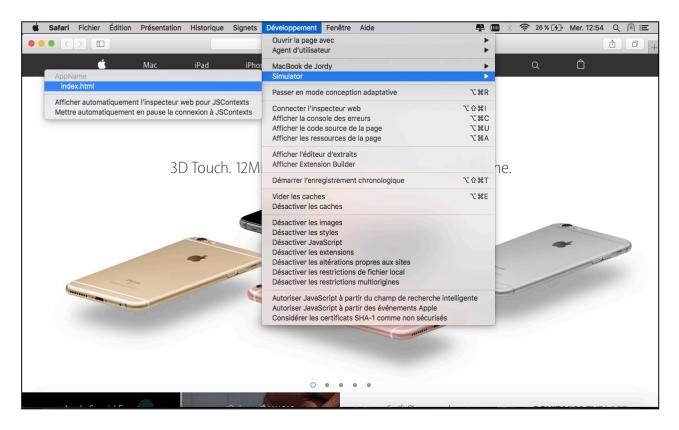
If you want to make any modifications in the code, you have to touch the files in the www folder of your project. And when you have finished the modifications, open a terminal, go into your cordova project with the terminal and write this command line.

\$ cordova platform remove ios

Then you will have to repeat the steps 16 to 24 if you want to test again your application.

III Debug

When you have launched your application, to debug and see if there are errors, you have to open Safari and in the task bar, click on "Development" and on "Simulator"/ your iOS device. Then click on "index.html".



Then you will have the debug window for your application which is running on the Xcode simulator or on your iOS device

