Documentation for the HomeKit App.

This application is based on Apple’s HomeKit api with an objective of developing an iOS/iPhone application which can communicate with the smart home accessories/appliances.

**Hardware Specifications:**

* Smart accessory - Philips HUE LED light.
* Internet Connection. (Wired LAN).

**Software Specifications:**

* Programming Language – Swift 2.2.
* Xcode Version – 7.3.
* iOS : 8.0 or above.

**Third Party Libraries:**

* Philips SDK for iOS (HueSDK\_iOS.framework).

**Prerequisites:**

1- Permission to create code signing and provisioning assets in Member Center.

2 – Add provisioning profile & Enable HomeKit:

**To enable HomeKit:**

* In Xcode, choose View > Navigators > Show Project Navigator.
* Choose the target from the Project/Targets pop-up menu (or in the Product/Targets sidebar if it appears).
* Click Capabilities to view app services that you can add to your app.
* Scroll down to the HomeKit row and select the switch.

**Steps for getting the Philips HUE device ready:**

* Power the bridge using adapter enclosed.
* Connect the bridge with LAN.
* Wait till all three indicators on bridge glows.
* Connect LED to the circuit board.

**Steps for connecting application with the Bridge:**

* Launch the application & wait for the pop up.
* Press link button in the middle of bridge to complete the authentication process.
* Now your application on device & the bridge are connected.

**Under the hood implementation:**

* Hue SDK uses the mac address & ip address of bridge to communicate.

So, make sure you have proper Internet access.

**How to use/Test:**

* Firsts of all add the beacon’s UDID.
* Fix the beacon location near bridge.
* Now move the device observe the on/off of LED light.

**Features:**

* Beacon enabled (For Geofencing).
* Controls the brightness of the LED.

**Future Enhancements:**

* Implementation of full control over LED.

**Useful links:**

* HomeKitDemoApp :

<https://github.com/siddharthsuneel/HomeKitDemoApp>

* Api documentation & Api debug tool:

<http://www.developers.meethue.com/documentation/getting-started>

* Api debug console:

http://<bridge ip address>/debug/clip.html

* Link for Xcode 7:

[https://www.google.co.in/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwj55efa35rNAhVCOY8KHf1iAMgQFggdMAA&url=http%3A%2F%2Fstackoverflow.com%2Fquestions%2F10335747%2Fhow-to-download-xcode-4-5-6-7-and-get-the-dmg-file&usg=AFQjCNHg6k1UahoEOX3G-zc\_fopVonvqXw](https://www.google.co.in/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwj55efa35rNAhVCOY8KHf1iAMgQFggdMAA&url=http%3A%2F%2Fstackoverflow.com%2Fquestions%2F10335747%2Fhow-to-download-xcode-4-5-6-7-and-get-the-dmg-file&usg=AFQjCNHg6k1Uaho)

* App store application for refrence:

Philips HUE app, DJ light app.

**Note:**

* Make sure Latest & updated SDK is integrated.
* Make changes in the code according to the new SDK.
* Do not change the existing code to the latest swift syntax.
* Move the device away from beacon slowly & wait for LED to response.