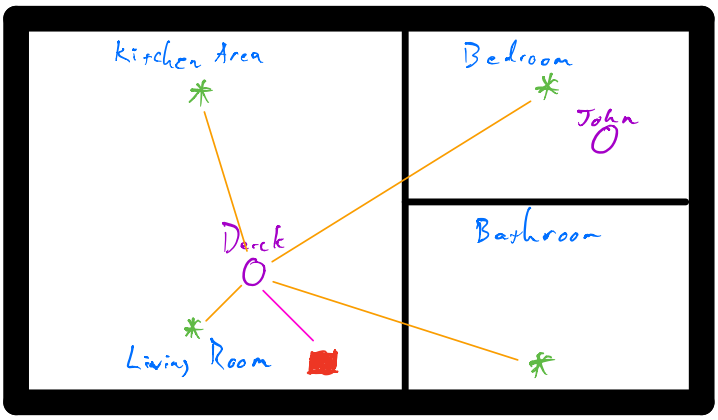
Proxihue: Proximity based Lighting

Idea: As users move through the house the lights in each room should transform to meet their preferred lighting level!

House Schematic

* = iBeacon
O = User
— = Distance
■ = Tessel2
~ = Wireless Transmission

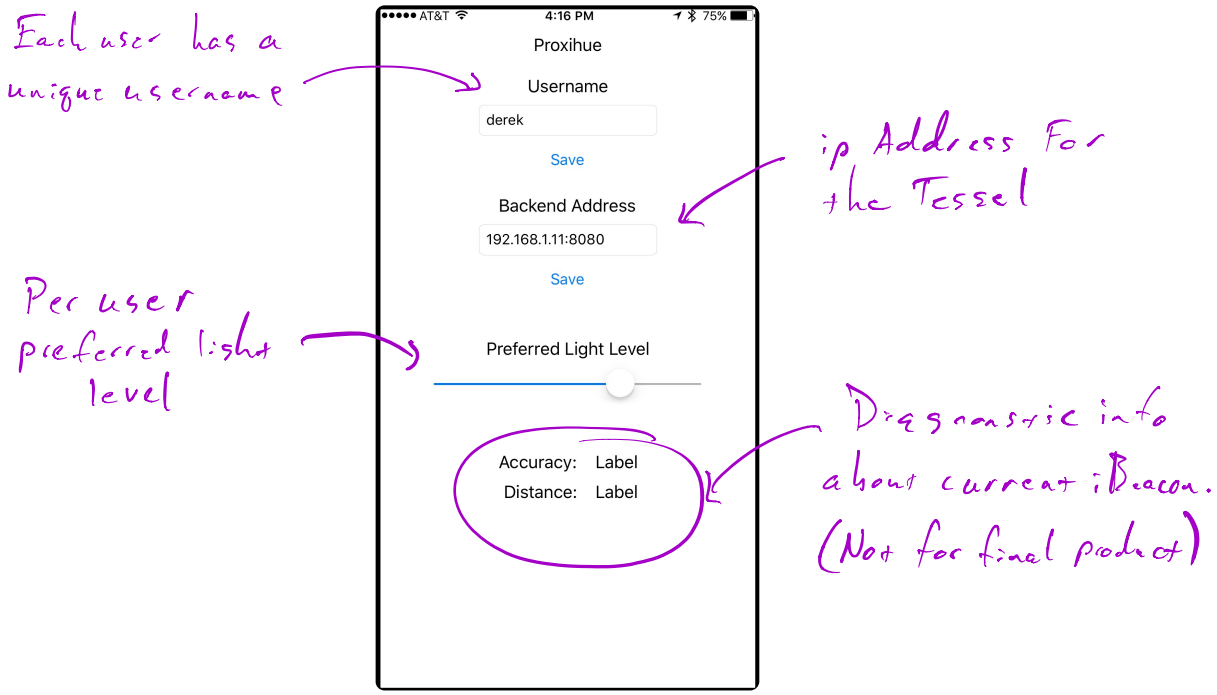


- iBeacons will be placed in each room in the house
- An app on each user's phone will constantly measure the distance to each beacon
- The app will send an HTTP request to the Tessel which is running Node.js
- The Tessel will keep track of each user's position and send signals to the Hue lights.

1. Users in separate rooms. Each room is lit using the current setting in the app on each phone.

2. Users move to same room. The light level is the average of each user's current setting within the app. The Bedroom light is turned out.

App Schematic:



Communication Schematic: