DIY Smart Home Kit

"Smart" devices and internet connected appliances are becoming more and more common in the market. With services like IFTTT and devices coming out like 'Amazon Alexa' and 'Google Assistant' now mainstream, it is possible to automate some tasks if you have a smart device that supports it.

The smart home kit will bring all these technologies together in to one hub, the command center to create a "smart home" where someone could control any appliance or accessory, or even set it up well enough to be ubiquotous and alleviate unnecessary manual tasks.

Accessories

Need to be able to install in any home for a relatively low cost. Allow for customization / expansion to tailor for any user and any kind of home.

It is also important that a user does not need to replace their old appliances to be able to have a smart home, so adaptors/conectors should be the main accessory which will enable old appliances to work as an iot connected appliance.
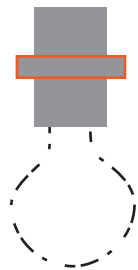
Command Center

A connected iOT home needs to have a central station which allows the user to control the behavior of their appliances / accessories to meet their needs.
Having a command center with a floor plan will provide an intuitive and easy way for users to select appliances / accessories.
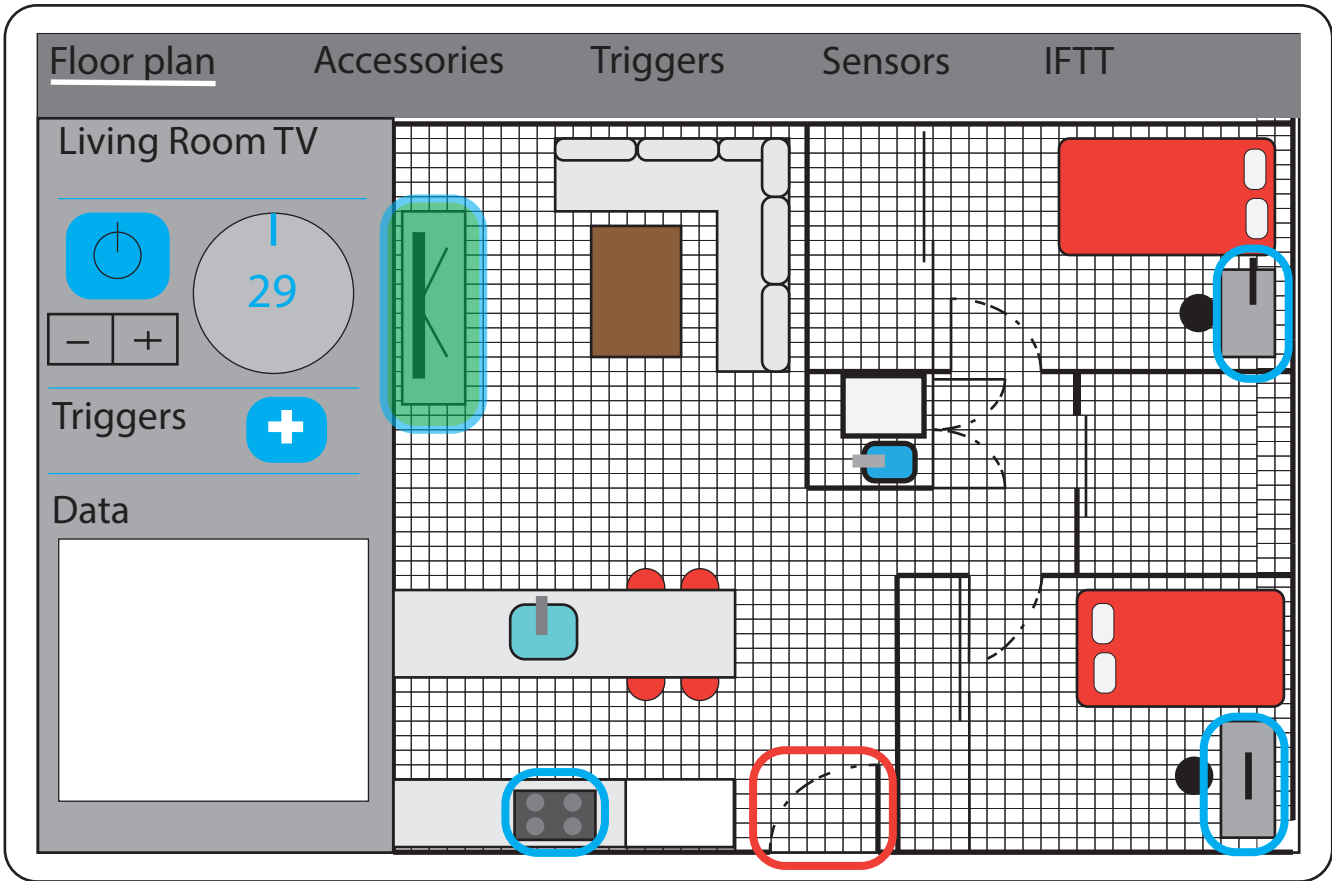
Command center could have IFTTT integrations to allow for a broader customisation ability for more advanced users.

Another advantage of the command center is that all devices do not need to think for themselves, only take instructions from the command center and perhaps send data.

SmartBlasterKnob4000

Iot web connected IR blaster controls any device with IR recievers through physical interraction or through web api / command center
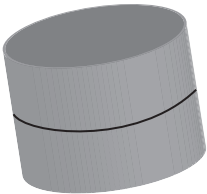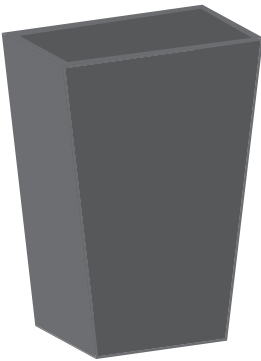
LightSmarter

plugs between lightbulb and power socket
connects to wifi to provide api access to switch on/off light, as well as provide usage details/history.
Also includes light sensor as part of/ or seperate from - to help decide when to turn on

ioTrash

Its a bin. But it also tells you when it needs to be emptied when it is full or it hasn't been emptied in a while. Also could provide feedback on recycling habits. Stats retrievable over api / viewable on command center

BlindSight2

Mechanical blinds with light and temperature sensors, connected for control by webAPI / command center

BaeTray

Weighs quantities of food and lights up when you are looking for it. Alerts you when you need to replace food.
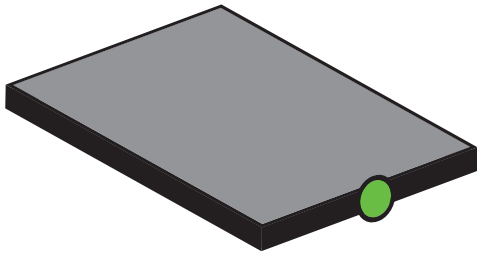
iPlugHole

web-connected power brick - switch ports on and off, and read electricity usage - view data through command center