**Hestia - MAO Slides**

**Intro**

Nowadays if we want to turn on a light in a room, we need to look for a light switch to do so. If your spouse forgets his/her key of the house, you will need to come and open the door for him/her. Also, have you ever wanted to come back to a house that is always warm without the need to always keep the heater on and thus conserving energy and saving the planet?

Could we do something about this day to day inconveniences and to make our life easier?

**What is Hestia?**

With the introduction and advancements of technology in more and more aspects of our lives, a new area of interest has emerged, home automation. Many manufacturers that produce this kind of devices have their own platform for their products, an approach that is not desired for the end users.

Hestia is a system that was created in order to provide a stable platform which is extendable and makes it easy to control every smart device in a user’s home. Any such device will be able to connect to our system, thus creating an universal platform for the end user to use and simplifying his life.

**User Stories**

**Mr Bond**

We don’t know what Mr. Bond does for a living but we know that he is a really busy man. He travels a lot around the world and he is unable to take care of his house in London while he is away.

As he is away for a large amount of time at once, he was thinking of renting his apartment through Airbnb. But who can he trust to let the key for the front door? Also, how can be sure that the guests don’t invade his personal space?

What Mr Bond want is the ability to lock and unlock all the locks in his house while he is in a different part of the world. And because he is using an iPhone as his main phone, he would want to do it from his smartphone.

**Mr Stephen Hawking**

Mr. Stephen Hawking is a physicist with a really keen sense for technology. Unfortunately, he also suffers from multiple disabilities, so for him every day to day task are a really big inconvenience. For example, he is unable to switch the lights in his study room without asking his assistant to do so. He is also using an iPad to control his wheelchair and to speak through a speech generating software.

What Mr Hawking want is the ability to control all his house lights through his iPad.

**Mr Tony Stark**

Mr. Tony Stark is also a really busy man. Between working at developing new technologies for the future, travelling abroad and fighting against the evil in the world alongside the Avengers as the well known superhero Iron Man, he doesn’t have time to call his assistant to turn on the heater in his mansion. Because of this, he always needs to turn it on himself when he arrives home and needs to wait a large amount of time for his house to get warm as it is pretty big. Because he needs to be portable, the only device that he carries with him all the time is his iPhone.

What Mr. Stark is looking for is a solution to automatize this process so he doesn’t need to do it himself and his limited amount of time he is spending at home be as comfortable as possible.

**The Hestia iOS Application**

The main product that our team has focused on is developing an iOS client as many of our clients that we have shown before are using an Apple Device.

The Hestia iOS client is split into a front-end and back-end. The front-end is concerned with formatting, presenting the gathered data to the user and making it editable and also making the design as simple as possible for a non techy user. The back-end section is concerned with sending and receiving JSON objects which represents the module for the devices from the server, it also serializes and deserializes the said objects. The back end also contains the needed code and data for interacting with the server, saving its address and other data and maintaining a list of devices with their activators.