**Functional requirements of the system**

This system will be made up of three sub-systems (database, smart devices and web service.) All systems must communicate and exchange information successfully using the deployment of IoT devices.

**MySQL Database Sub-System**

* The system will perform C.R.U.D operations in order to successfully store and handle data within the tables.
* This system must store information from IoT devices (e.g. fridges, heating systems, water and energy monitoring systems) to be displayed on the client machine.
* This system must be able to successfully store and handle data from the web service (server).

**Smart Devices Sub-System**

* This system must allow the user to look through the list of devices they have, viewing their current and past status.
* This system must allow at least three devices to be monitored, and allow for extendibility of more devices.
* It must be able to successfully display the web service providing the information on the clients IoT devices.

**Web Service Sub-System**

* This system must support at least three computing devices such as laptops, desktops and smartphones running on different operating systems, and allow for extendibility of more devices.
* It must allow to see trends over time for each device’s data which is produced from the simulated IoT devices.
* The system must allow for extendibility and maintainability of all aspects (e.g. functionality of the design interface.)
* This system must be able to successfully connect and send data to the database system for storage.