Domotic Garden

The garden for everyone

Serverless Computing for IoT

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Figure 1: GreenHouse

Explication

I have always tried to grow plants(chili, salad, basil etc..) over the years. I have noticed that this idea is very difficult to realize, for various reasons: little space, little green thumb, but the biggest problem is the lack of time.
Domotic garden could solve this problem!

My idea is to create a small greenhouse, capable of reproducing an ecosystem functional to the growth of different plants. With the use of sensors, placed in the pots of the plants and in the greenhouse, I want to manage all the parameters useful for a plant to grow. With these sensors, I can monitor:

- Temperature(Thermostat);
- Light intensity(Brightness);
- Soil humidity(Soil moisture).

After taking this data, the idea is to activate other sensors, placed inside the greenhouse. The sensors inside the greenhouse are:

- Lamp;
- Sprinkler;

- Calorificator.

These sensors are activated with a precise purpose, based on certain information about growing potted plants. I get this information from sites with true and real data.

Infrastructure

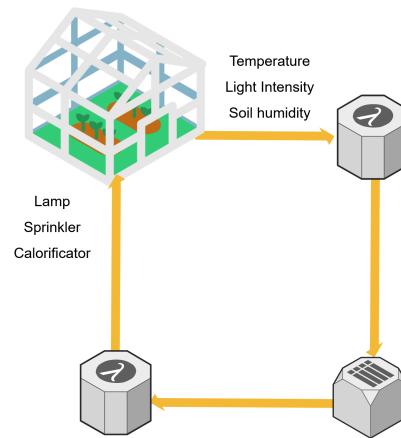This is my idea of infrastructure that I imagined, surely I will be forced to change it in the development phase.

Figure 2: Infrastructure