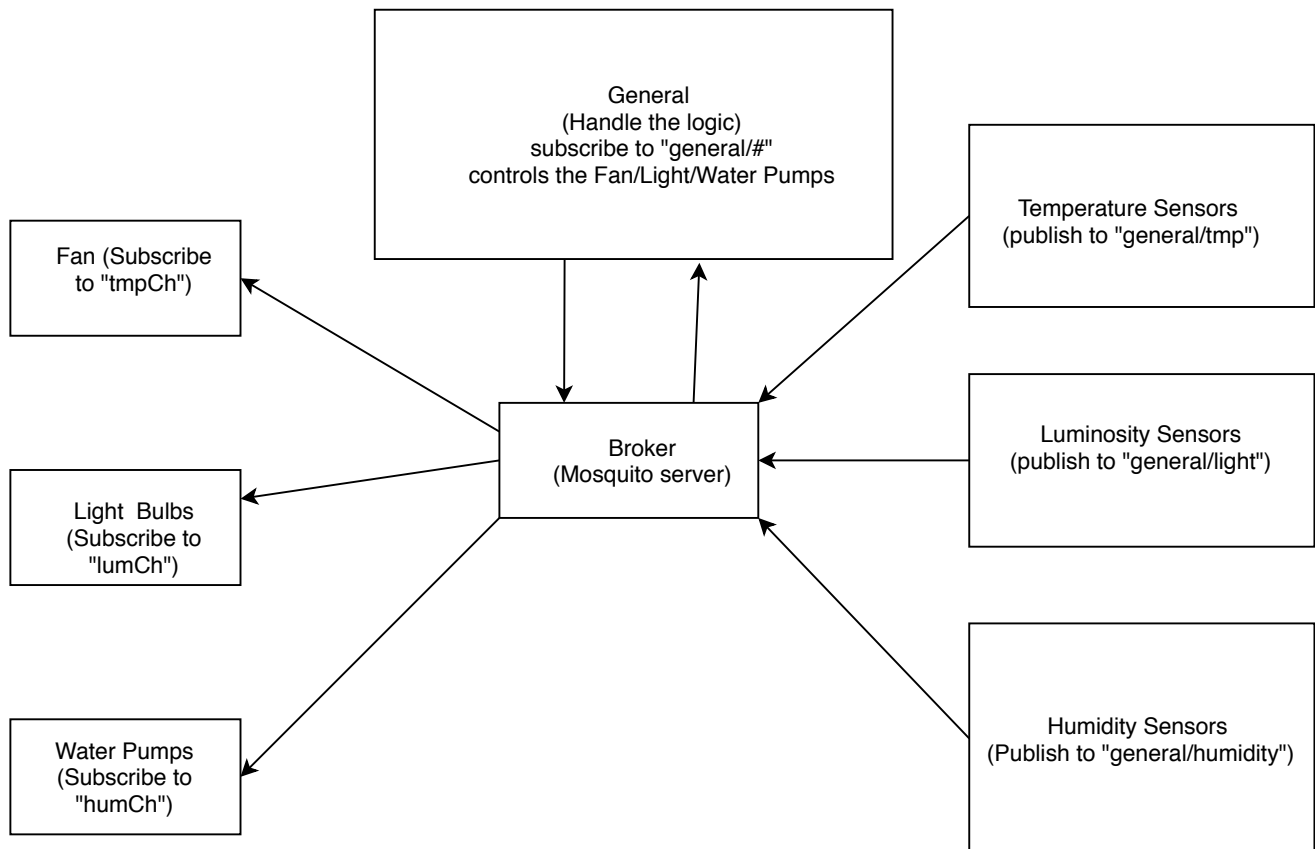


Smart Farming System (Distributed System)



Pleurotus Ostreatus Growing Conditions

References: <https://www.mycelia.be/en/strain-list/m-2175-pleurotus-ostreatus>

Temperature: 25 - 30 degrees Celsius

Luminosity: 800 - 1500 Lux

Humidity: 80 - 90%

Explain Design

There is 3 publishers (Temperature, Luminosity, and Humidity) , and 4 subscribers (General, Fan, Light Bulbs, and Watering Pumps)

The General Subscriber will subscribe to the topics and will receive snapshot of data collected every tick, then decides if he should turn on/off the fan, light bulbs or water pumps,...

The 3 others Subscribers (Fan, Light Bulbs, and Watering Pumps) will subscribe to 3 corresponding Topics "temp", "luminosity", and "humidity". Each one will be receiving 1 or 0 if the data is over the threshold.

The 3 Publishers (Temperature, Luminosity, Humidity) will collect data, send data to General subscriber and check the threshold, if collected data is over the threshold

Dashboard will get information from the general subscriber

Team Members

- Adrian
- Doan Hoang Tuan

