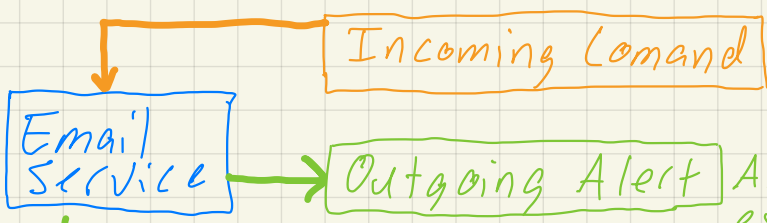


# Home Suite Home Block Diagram MK 2

Remote Users

External Network (Internet)

Local Network  
Local User



Command sent to server ex: subject line "report" sends All sensor data  
Alert to user ex: temperature too low w/ sensor value

Raspberry Pi Aggregator

Optional Path

Physical Notification

Flashing Beacon LED/ Buzzer

Optional Path

Built to only work within the home to avoid DNS/complex external comms

Virtual notification

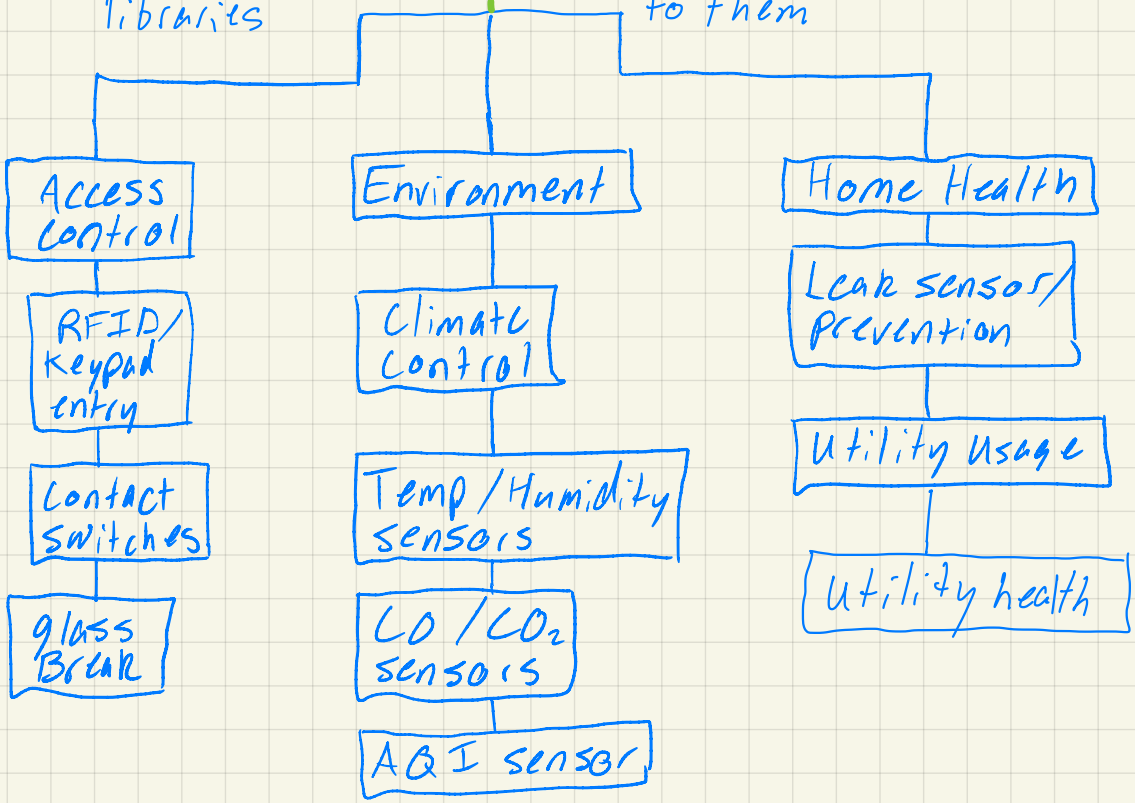
Basic UI  
- Web app  
- phone app  
- etc.

All sensors connected to the local area network (LAN)  
All Built on NodeMCU ESP8266

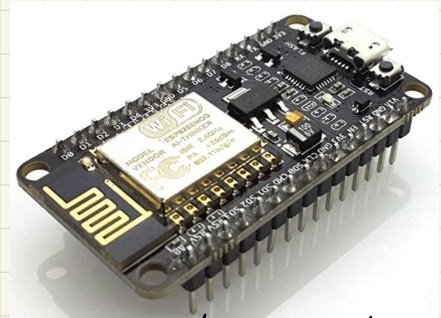
ESP8266s will act as basic HTTP servers displaying sensor data when the Rasp Pi connects to them

Optional alarm-line Alerts  
Easy to implement by connecting directly to GPIO on Rasp Pi

Almost all arduino sensors have pre-made software libraries



NodeMCU ESP8266



- Affordable (\$4.60)
- Socketable - moved to new sensors / reusable
- 8 DIO / analog
- excessively easy software to simplify this part of the project
- Focus on other parts