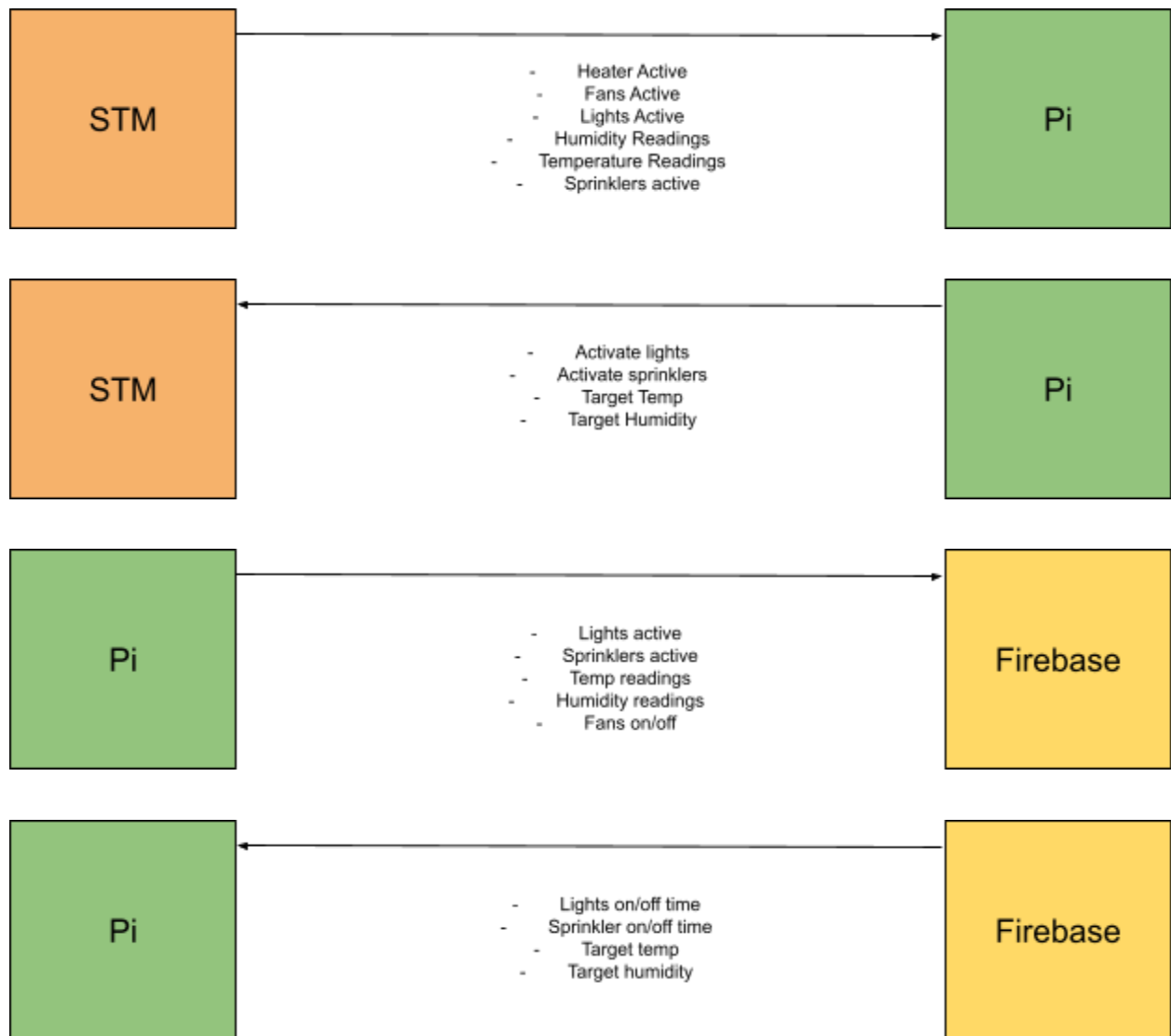


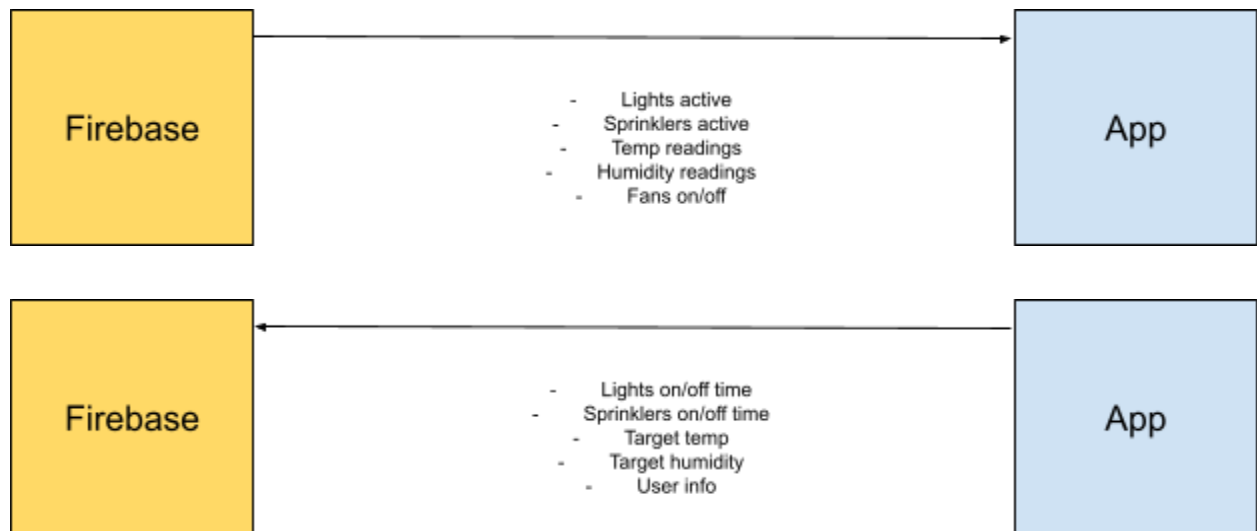
int725What we need:

- Target temp
- Target humidity
- Lights on/off time
- Sprinklers on/off time
- Fans on/off
- Humidity readings
- Temp readings
- Heater on/off

To Add later:

- Water level readings from reservoir





Byte Pattern:

STM to Pi:

uint8_t temp	uint8_t humidity	bool light on	bool heating fan on/off	bool cooling fan on/off	bool heater active	bool sprinklers active
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Pi to STM:

uint8_t target temp	uint8_t target humidity	bool activate lights	bool activate sprinklers
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Pi program:

- Be able to read time for lights and sprinklers
- Switch on/ off the light and sprinkler(send flags to STM)
- Send target temp / humidity
- Read from firebase
- Send to firebase

STM:

- Run humidity/temp control loop
- Send sensor data to pi
- Send all actuator status to pi
- Control actuators