(AQI, GAS) ≥ Threshold

(AQI, GAS) <Threshold

If AQI≥ 100 and Gas≥ 600

**System Turns Off**:

Manual reset or power-down

Wi-Fi not connected (startup failure)

SYSTEM\_ON = False

(AQI, GAS) <Threshold

Fan and Buzzer gets activated (HVAC and Alert)

If AQI<100 and Gas<600

If AQI≥100 and Gas≥600

MONITORING STATE

Thingspeak upload of Temp, Humidity, AQI, Fan Speed, Gas Value

Threshold Values

1)Gas<600=>Fan PWM=0

2)Gas 600-799=>Fan Pwm=140

3)Gas 800-999=>Fan PWM=160

4)Gas >=1000=>Fan PWM=255

1)Temp below 18=>Fan Pwm=0

2)Temp >= 18 and <20=>Fan Pwm=140

3)Temp >= 20 and <25=>Fan Pwm=160

4)Temp >=25=>Fan Pwm=255

ACTUATORS

WARNING

IDLE