

# SAAND TEMPERATURE & HUMIDITY SENSOR

GNG1103 Group D8

Nada El Rayes

Amanda Beraldo Brandao de Souza

DongYu Wang

Aaron MacNeil

Shayleen Ghanaat

## Define

# Problem statement

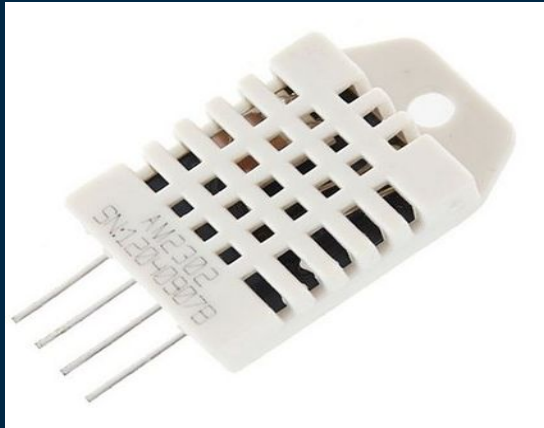
**JAMZ Automated Delivery** needs a **reliable and accurate device** to **monitor the temperature and humidity** of the food delivered, which will send a warning to their drone operator when the temperature or humidity is not in the acceptable range.



Metrics from client needs	Target specifications
❖ Accuracy: %	❖ Sensor Accuracy: above 95%
❖ Temperature not ideal range: °C	❖ Temperature not ideal range: between 0°C and 19°C
❖ Humidity ideal range: %	❖ Humidity ideal range: below 50%
❖ Total weight: kg	❖ Total weight: below 1kg
❖ Frequency: datapoints/sec	❖ Frequency: 2 data points/sec

# Why us?

## Sensor



□ DHT22  
Temperature/Humidity  
□

## Cooling fan



San Ace 60

## Housing



□ IP65  
waterproof/dustproof  
□

