

## **IOT Weather Station**



Ahmad Ahdulrahman Hafaz /27010208 Salman Mosaad Alotihi /27026845 Abdullah Naif Aloufaia /26040248 Saaad Atvah Alzahrani /270032491

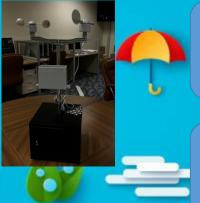
## Abstract

The system proposed is an advanced solution for weather monitoring that uses IoT to make its real-time data easily accessible over a very wide range. The system deals with monitoring weather and climate changes like temperature, humidity, wind speed using multiple sensors.



| Speed Avrage 0.44704 | Speed Avrage 0.44704 | Speed Avrage 0.44704 | Speed Max 8.4068 | Temp 20.555558 | Rain Per Hour 0.254 | Rain Per Day 0.254 | Humidity 36 | Bar Pessure 9.71.5 | Speed 5.20 | Speed Avrage 0.71 | Speed 0.71 |





## Objectives

 Design a weather station that can help users to access data anywhere in real-time.

Using Raspberry Pi SOC (System On Chip), Using sensors like (DHT22, Wind Speed Sensor, Wind Vane, BMP180, and AQI.

 packaging Our Weather Station will be in model with facilities needed to keep up and running that include waterproof box, cooling fan, heat sink, and power

Data Flow Diagrams



WEATHER