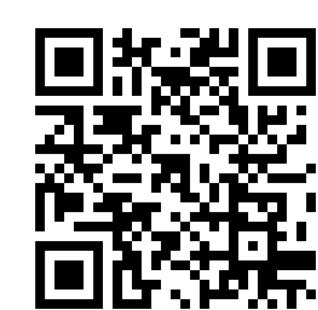


Hoang Nguyen | 566422  
Son Cao | 570135

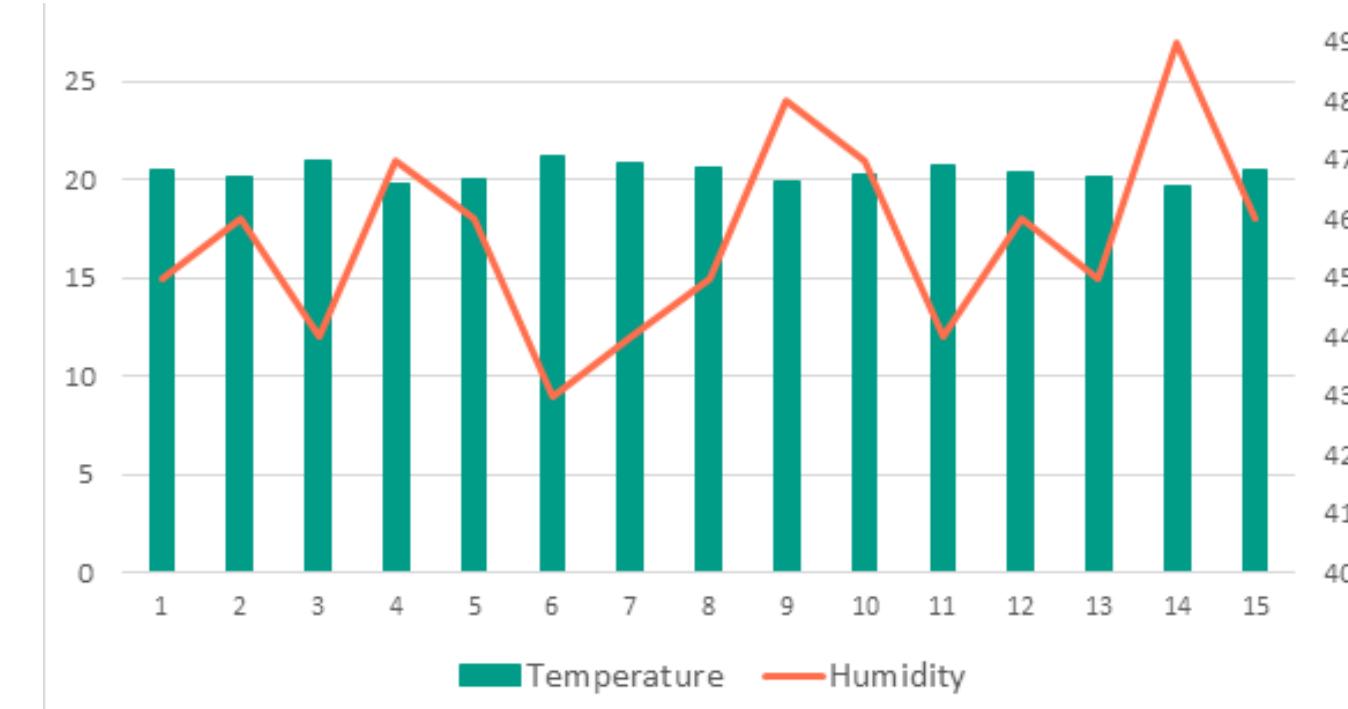


# EnviroSense: Your Environmental Monitor Companion

## Introduction

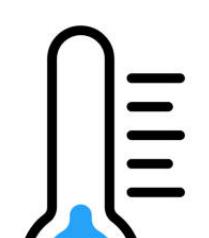
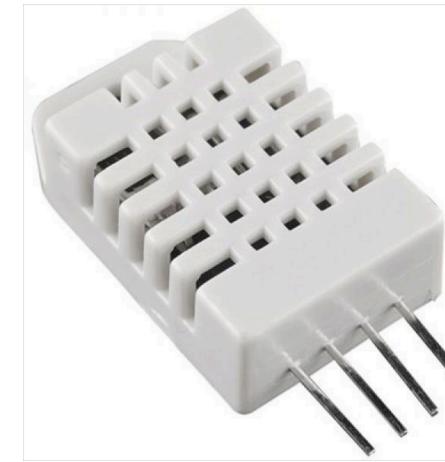
- Once upon a time, there were two young men who dreaming of developing something helpful to other people, they then end up with this project - EnviroSense
- EnviroSense monitor and optimize your room conditions using its magical sensor and indicating LEDs
- EnviroSense track and alerts user when the temperature reach potentially dangerous
- EnviroSense integrates hardware and software to ensure user-friendly operation

## Result

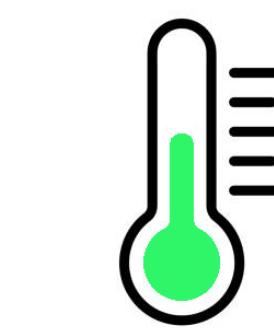


## Method

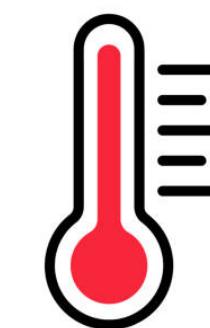
- Sensor: DHT22 keeps track of temperatures and humidity
- Display: Real-time temperature on 7-segment displays
- Visual cues: RGB LED



Cold

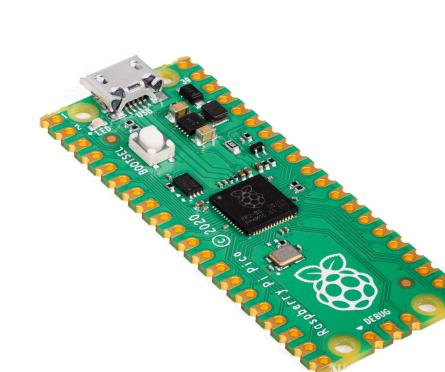


Comfortable



Hot

- Threshold Adjustment: Rotary encoder modify comfortable range
- [IoT integration: Allow EnviroSense to send alert
- EnviroSense is controlled by the Raspberry Pi Pico



## SOS



A RGB LED constantly updating temperature status



A buzzer connected to the microprocessor

## Discussion

EnviroSense's goal is to:

- Ensure a comfortable living environment for your kids, your pets, and you

EnviroSense aims to:

- Develop features allowing it to control fan, AC and other furnitures

EnviroSense's vision is to:

- Promote sustainable living by optimizing energy usage in your home.

## References & Acknowledgements

- Smith, J., & Doe, R. (2023). IoT in Environmental Monitoring. Journal of Tech Solutions.
- Brown, P. (2021). Optimizing Sensor Integration. Electronics World
- Felix Hartlieb, our amazing professor who guides us with his advices to complete this project