

Project Design Phase-4

Date	26 October 2023
Team ID	7934
Project Name	4123-Air Quality Monitoring
Team Name	Proj_227237_Team_2
Team Members	5

Adding New Data To The Existing Dataset

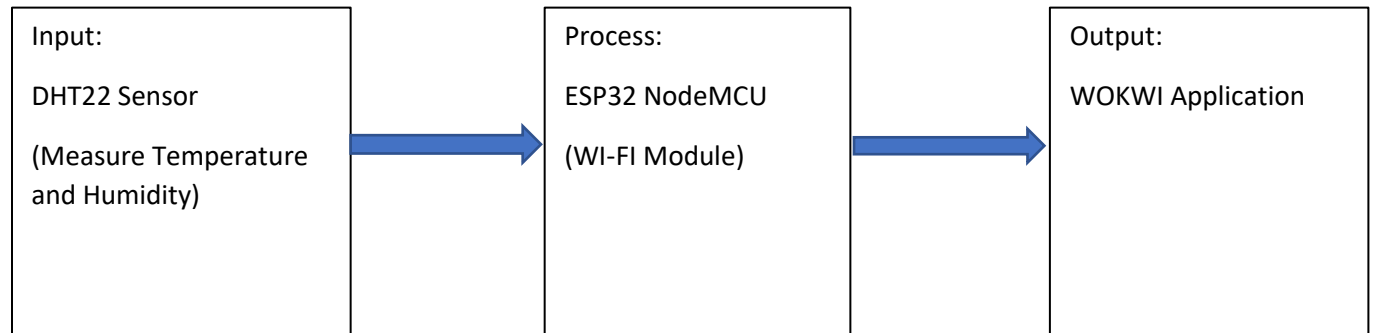
Reference: <https://wokwi.com/projects/378845778645534721>

Python Code:

```
from machine import Pin
from time import sleep
import dht
import network
sta_if = network.WLAN(network.STA_IF)
if not sta_if.isconnected():
    print('connecting to network...')
    sta_if.active(True)
    sta_if.connect('Wokwi-GUEST', '')
    while not sta_if.isconnected():
        pass
    print('network config:', sta_if.ifconfig())
```

```
sensor = dht.DHT22(Pin(15))  
while True:  
    try:  
        sleep(2)  
        sensor.measure()  
        temp = sensor.temperature()  
        hum = sensor.humidity()  
        temp_f = temp * (9/5) + 32.0  
        print('Temperature: %3.1f C' %temp)  
        print('Temperature: %3.1f F' %temp_f)  
        print('Humidity: %3.1f %%' %hum)  
    except OSError as e:  
        print('Failed to read sensor.')
```

BLOCK DIAGRAM:



Output:

connecting to network...

network config: ('10.10.0.2', '255.255.0.0', '10.0.0.1', '10.0.0.1')

Temperature: 24.0 C

Temperature: 75.2F

Humidity: 40.0 %