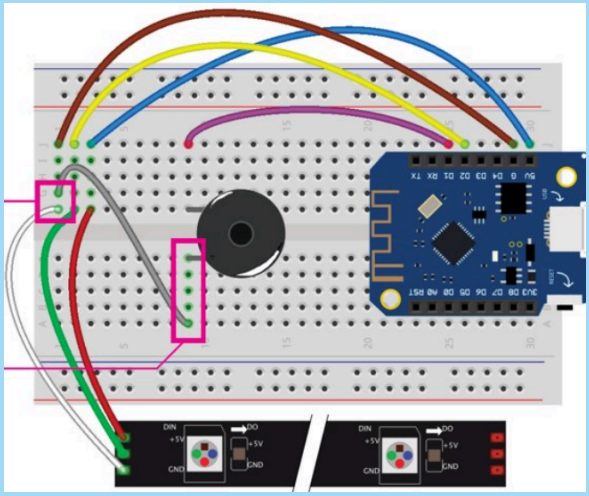
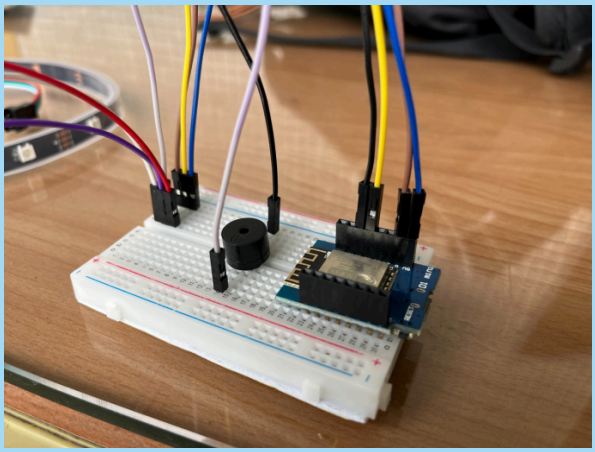
Code:

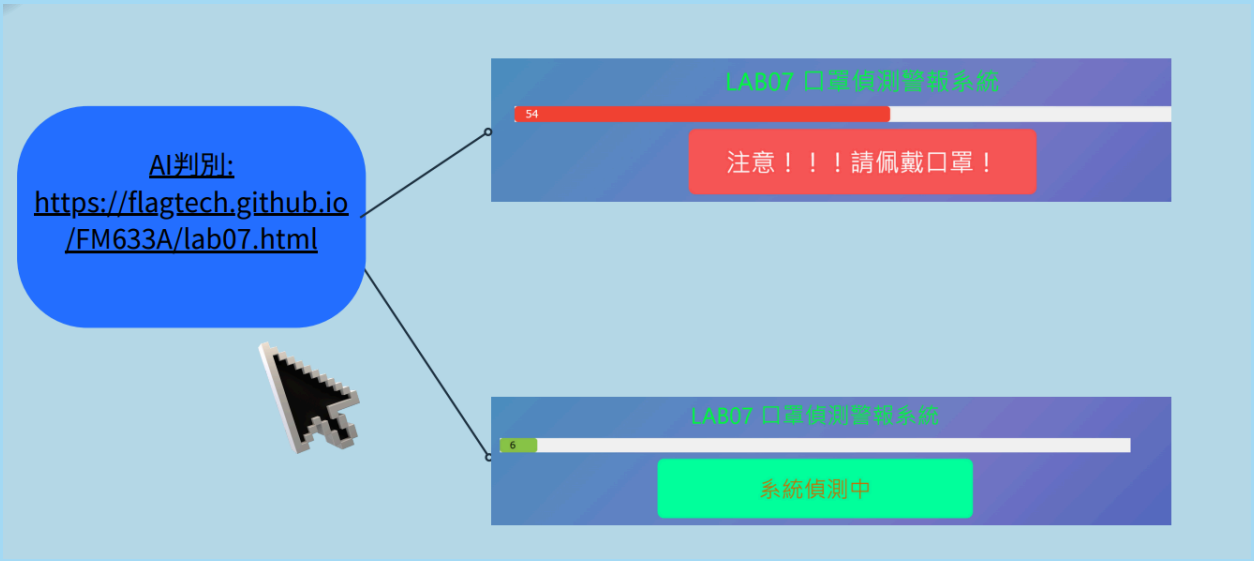
```
import network
from machine import Pin, PWM
from time import sleep_ms
from umqtt.robust import MQTTClient

# Set up the buzzer pin and frequency
buzzer = PWM(Pin(5))
buzzer.freq(400)  # Set the buzzer frequency to 400Hz
buzzer_on = 0     # Use buzzer_on as an alert status flag

# Connect to Wi-Fi network
sta_if = network.WLAN(network.STA_IF)
sta_if.active(True)
sta_if.connect("wi-fi name", “Wi-Fi password")  # Attempt to connect to
specified Wi-Fi
while not sta_if.isconnected():
    pass  # Wait until connection is complete

print("Board connected")  # Confirm successful connection
# Create MQTT client
client = MQTTClient(
    client_id="",
    server="io.adafruit.com",
    user="a3310246",
    password="aio_aJaj42fTgChl0ObczPh0diAAV5Xc",
    ssl=False
)

# Function to handle received messages
def get_cmd(topic, msg):
    global buzzer_on
    print(topic, msg)
    if msg == b'ON MASK!':
        buzzer_on = 1
        print('NO MASK!')
    else:
        buzzer_on = 0
        print('CLEAR.')

# Function to make the buzzer sound
def buzz():
```

```
    buzzer.duty(512)      # Turn on sound
    sleep_ms(200)
    buzzer.duty(0)        # Turn off sound
    sleep_ms(200)

client.connect()
client.set_callback(get_cmd)  # Set the message callback function
client.subscribe(client.user.encode() + b"/feeds/mask")  # Subscribe to topic

# Continuously check for messages
while True:
    client.check_msg()  # Check for new messages
    if buzzer_on:
        buzz()
```

Circuit Diagram:






AI判別:
https://flagtech.github.io
/FM633A/lab07.html
LAB07 口罩偵測警報系統
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