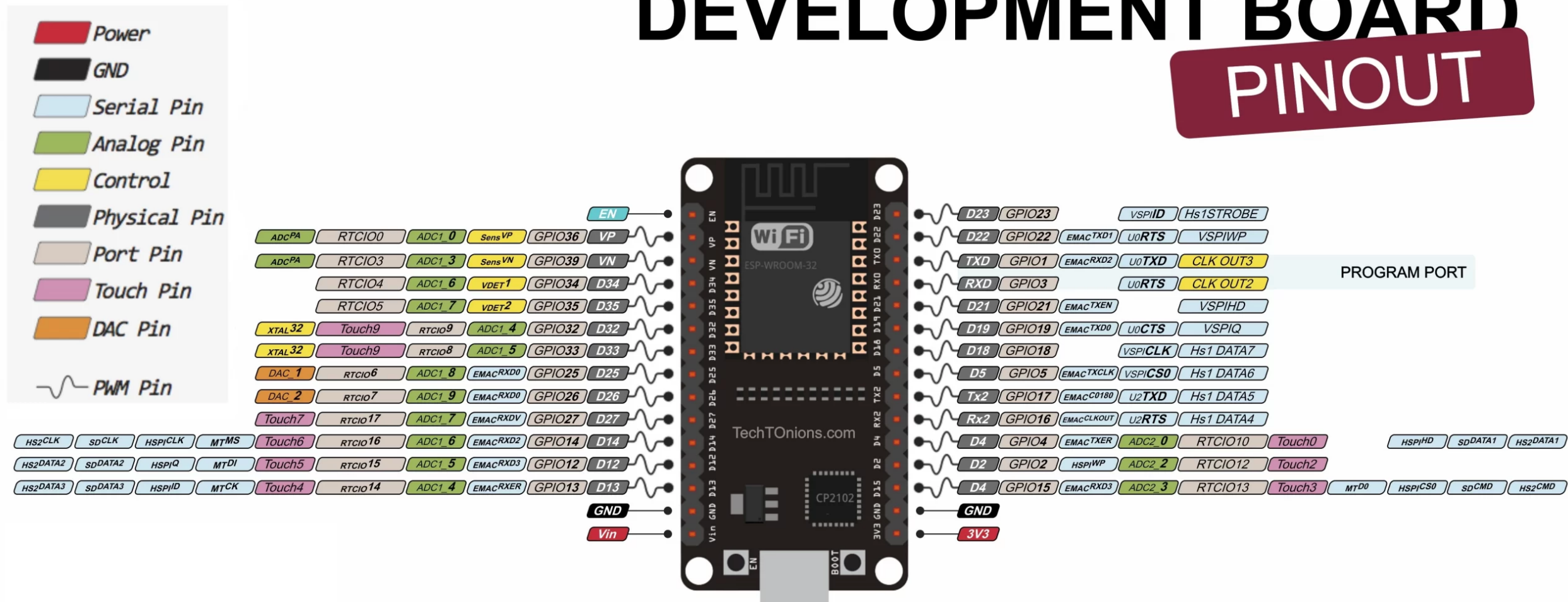
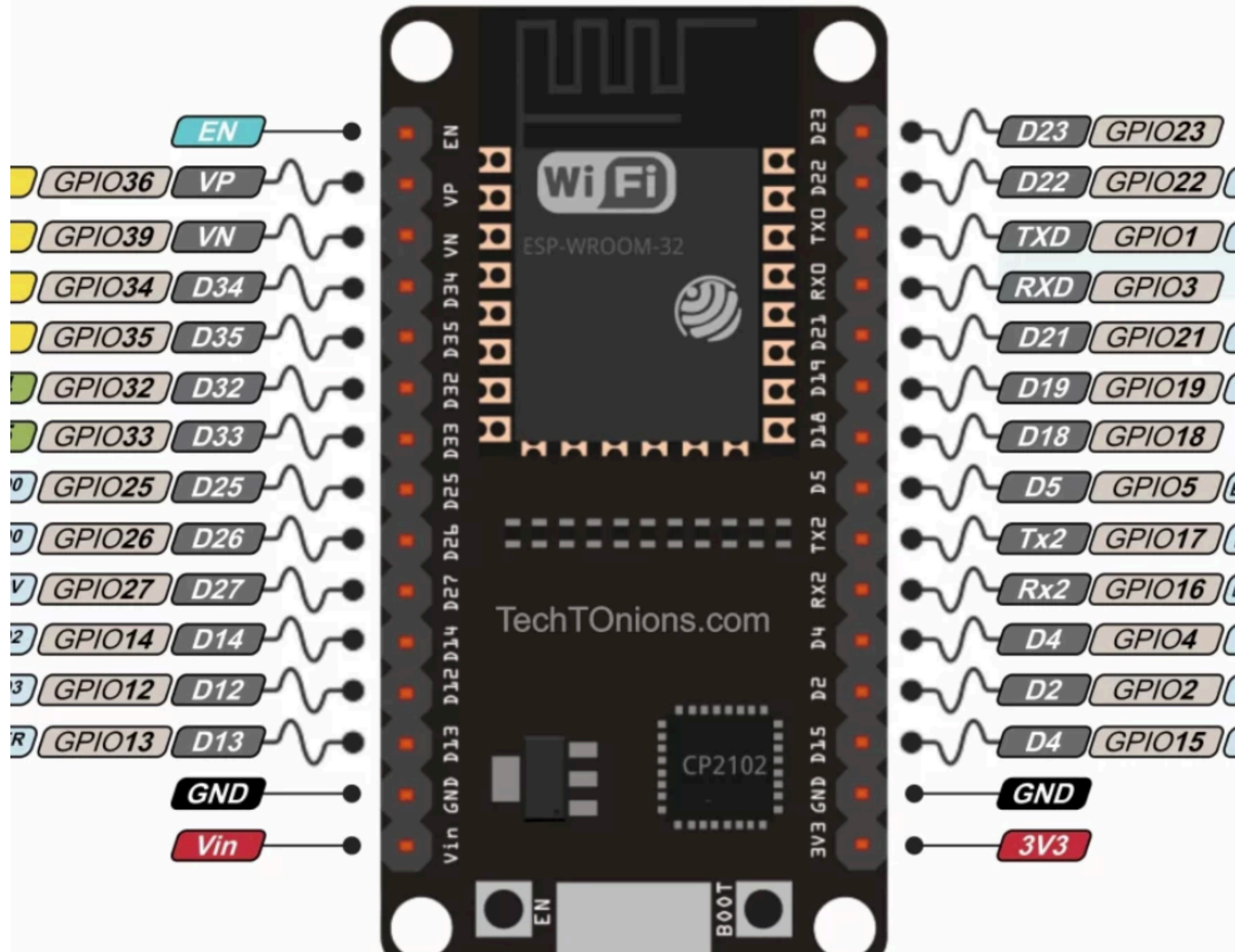


# RFID Application

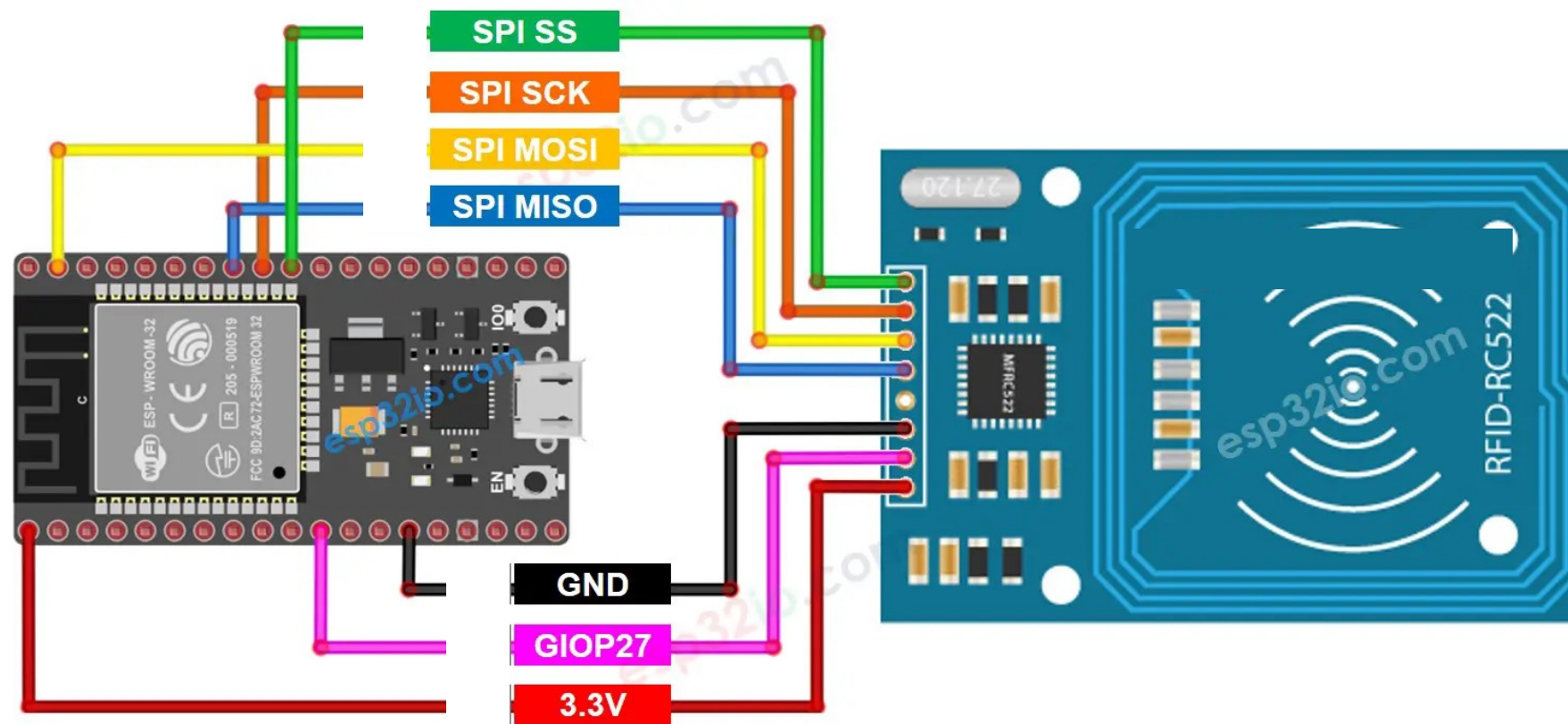
Micro-python - IoT

# ESP32-WROOM-DA DEVELOPMENT BOARD PINOUT





# RFID Only Diagram



## The wiring table between RFID/NFC RC522 Module and ESP32

RFID/NFC RC522 Module	ESP32
SS pin	→ (29) GIOP5
SCK pin	→ (30) GIOP18
MOSI pin	→ (37) GIOP23
MISO pin	→ (31) GIOP19
IRQ pin(not connected)	
GND pin	→ <b>GND</b>
RST pin	→ (11) GIOP27
VCC pin	→ 3.3V



# Access Gate

- Add Speaker / Buzzer into RFID Wiring
- Add 2 LED (Red / Green)
- Use RFID to check authentication
  - Every RFID Tag/Card has unique ID
  - Use this ID to check authentication
  - If Access Granted: Green on for 3 seconds and beep sound
  - If Access Denied: Red blinking for 3 seconds and beep
  - Note: Beep sound is different between access granted and denied

# Recall: If statement

```
if ( name == 'admin' ):  
    print('Access granted')
```

```
if ( name == 'admin' ):  
    print('Access granted')  
else:  
    print('Access Denied')
```

```
if ( name == 'jason' ):  
    print('Access Granted')  
elif (name == 'justin'):  
    print('Access Granted')  
elif (name == 'vincent'):  
    print('Access Granted')  
else:  
    print('Access Denied')
```