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import network
import time
from machine import Pin
import dht
import ujson
import urequests

#sensor setup in ESP32
sensor = dht.DHT22(Pin(27))

# Firebase configuration
FIREBASE_URL = "https://environment-monitoring-f638b-default-
rtdb.firebaseio.com"
FIREBASE_SECRET = "IouMIfvINfGy5JGOpM4OIuGfjomMuQ0C7slx36KC"

#WiFi connection for ESP32
print("Connecting to WiFi", end="")
sta_if = network.WLAN(network.STA_IF)
sta_if.active(True)
sta_if.connect('Wokwi-GUEST', '')
while not sta_if.isconnected():
  print(".", end="")
  time.sleep(0.1)
print(" Connected!")

#Send data to firebase
def send_data_to_firebase(data):
    print("Sending data to firebase...")
    url = "{}/data/park.json?auth={}".format(FIREBASE_URL,
FIREBASE_SECRET)
    headers = {"Content-Type": "application/json"}
    response = urequests.put(url, json=data, headers=headers)
    print("Firebase Response:", response.text)
    response.close()

#Measuring Environment Conditions
print("Measuring Environment Conditions... ")
while True:
    sensor.measure()

    #simulation report
    print('Temperature: ',sensor.temperature(),"C",
        ' Humidity: ',sensor.humidity(),"%")

    # Prepare data to send to Firebase
    firebase_data = {
        "Temperature" : sensor.temperature(),
        "Humidity" : sensor.humidity()
    }
    # Send data to Firebase
    send_data_to_firebase(firebase_data)

    time.sleep(1)
```