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from flask import Flask, jsonify
import serial
import time

# Setup serial port (make sure to use the correct port, e.g., COM3 for Windows or /dev/ttyUSB0
arduino = serial.Serial(port='/dev/ttyUSB0', baudrate=9600, timeout=2)
time.sleep(2) # Give some time for the Arduino to reset

app = Flask(__name__)

@app.route('/api/environment')
def get_environment_data():
    try:
        # Request and read data from Arduino
        if arduino.in_waiting:
            line = arduino.readline().decode('utf-8').strip()
            if "Air Quality" in line:
                ppm = float(line.split(":")[1].strip().replace("PPM", ""))
                return jsonify({
                    "air_quality": round(ppm, 2),
                    "noise_level": round(random.uniform(40, 90), 2) # Simulated for now
                })
    except Exception as e:
        return jsonify({"error": str(e)})
    return jsonify({"error": "No data"})

if __name__ == '__main__':
    app.run(debug=True)

```