

Noise pollution monitoring

IoT_phase3

Python code

```
import time
import random
import requests

# Simulate noise level data (replace with actual sensor readings)
def get_noise_level():
    return random.uniform(60.0, 90.0) # Replace with actual noise sensor data

# API endpoint of the Noise Pollution Information Platform
platform_url = "https://your-platform-url.com/api/noise-data"

while True:
    # Read noise level data from the sensor
    noise_level = get_noise_level()

    # Create a JSON payload with the data
    payload = {
        "noise_level": noise_level,
        "timestamp": int(time.time()),
        "location": "Sensor Location" # Replace with actual location data
    }

    # Send the data to the platform
    try:
        response = requests.post(platform_url, json=payload)

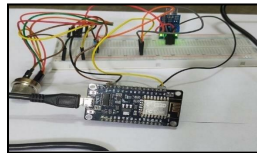
        if response.status_code == 200:
            print("Data sent successfully")
        else:
            print("Failed to send data. Status code:", response.status_code)

    except Exception as e:
        print("Error:", str(e))
```

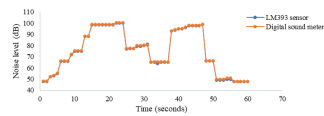
Adjust the time interval based on our requirements
time.sleep(60) # Send data every minute (adjust as needed)



Sound sensor



Noise pollution detection kit



Pollution detection output sample