TRAFICA

Data Acquisition and Integration

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NANTHAWAT DUANG-EAD

6510545551

PHUMRAPEE CHAOWANAPRICHA

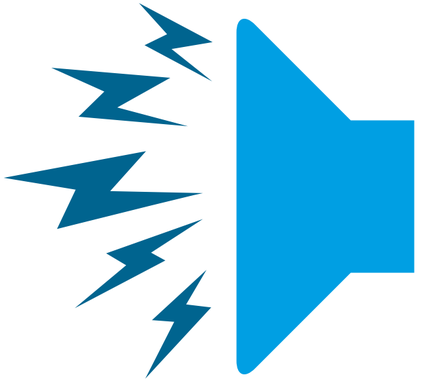
6510545683

GITHUB REPOSITORY

OVERVIEW

DOES TRAFFIC EFFECTS

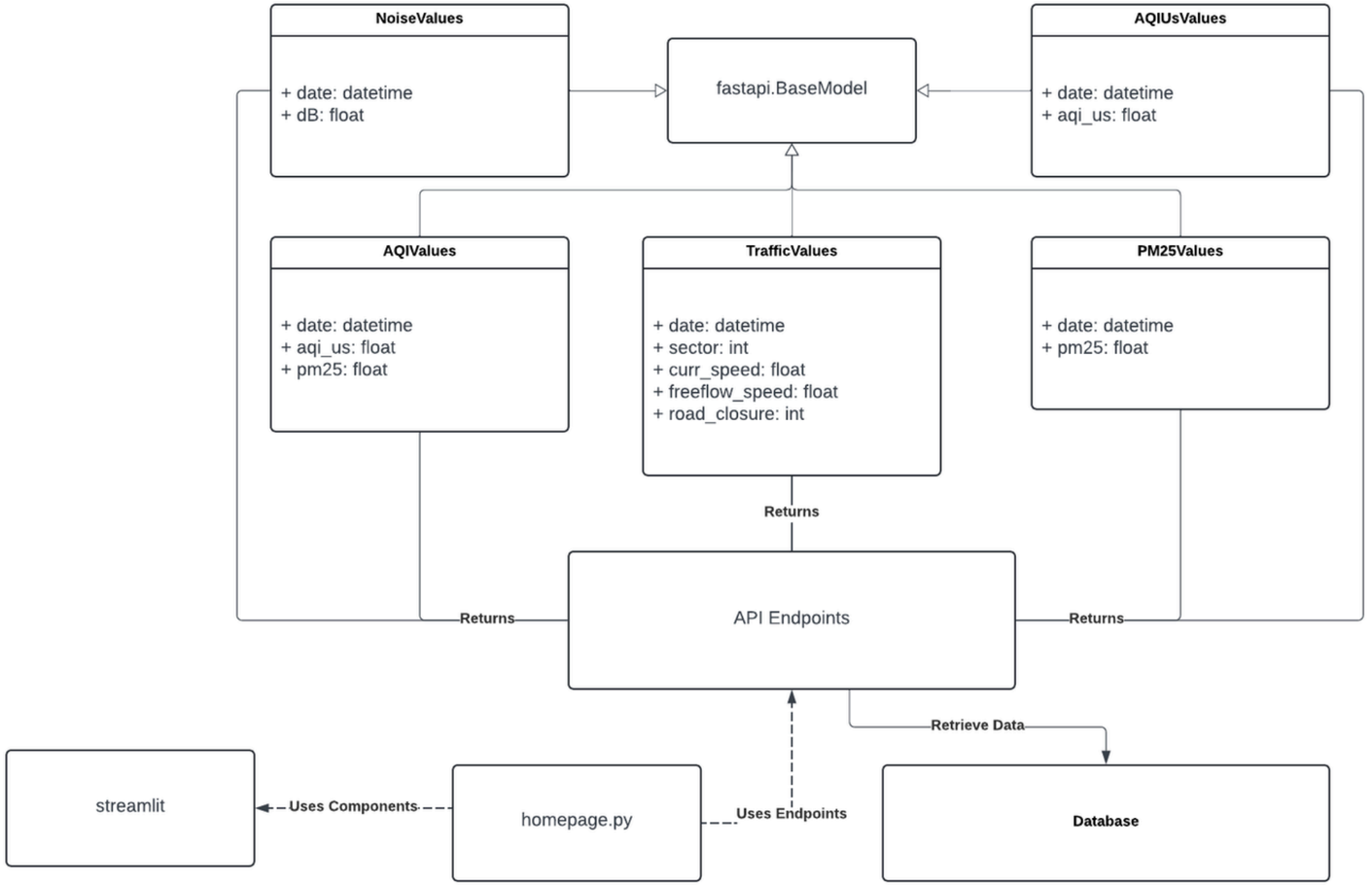
=



OR

AIR QUALITY AND NOISE POLLUTION?

OVERALL ARCHITECTURE

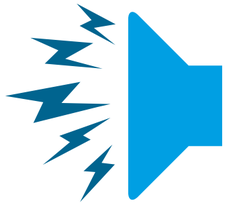


DATA SOURCES

TRAFFIC

TOMTOM'S TRAFFIC API

SOUND-LEVEL



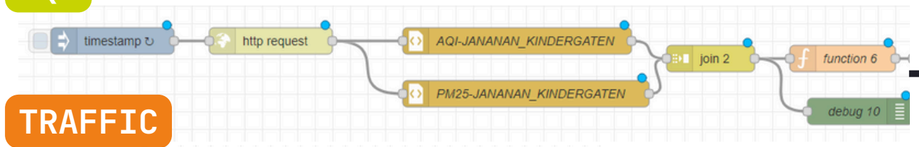
COLLECT FROM MOBILE APP

AIR-QUALITY

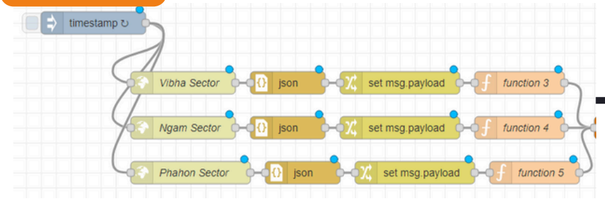
SCRAPE FROM IQAIR PAGE

COLLECTING

AQI



TRAFFIC



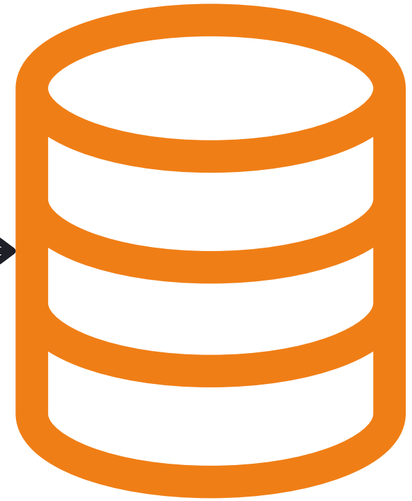
NOISE

ID	TS	AVG	MIN	MAX
1	4/20/24 8:00	32	24.8	56.9
2	4/20/24 12:00	36.7	0	68.2
3	4/20/24 16:00	37.7	0	74.3
4	4/21/24 8:00	33	25.5	58
5	4/21/24 12:00	37	29.4	67.7
6	4/21/24 16:00	55.1	35.8	74.9
7	4/22/24 8:00	64.8	50.6	79.6
8	4/22/24 12:00	57.4	44.4	81.9
9	4/22/24 16:00	42	32.7	73.8
10	4/23/24 8:00	56.5	36.4	76
11	4/23/24 12:00	44	33.8	74
12	4/23/24 16:00	36.4	30.7	59.8
13	4/24/24 8:00	44	33.8	74
14	4/24/24 12:00	56.8	43	78
15	4/24/24 16:00	46	36.3	73.3
16	4/25/24 8:00	43.7	27.9	67.3
17	4/25/24 12:00	54	33.5	73.1
18	4/25/24 16:00			
19	4/26/24 8:00	47.2	40.8	75.9
20	4/26/24 12:00	52.4	29.7	61.7
21	4/26/24 16:00			
22	4/27/24 8:00	42	41.5	72.8
23	4/27/24 12:00	38.7	34.3	58.7
24	4/27/24 16:00	43	28.2	60.4
25	4/28/24 8:00	50.3	40.9	55.6
26	4/28/24 12:00	49.4	42.5	57.7
27	4/28/24 16:00	42.7	37	56.8
28	4/29/24 8:00	44	39.5	62.3
29	4/29/24 12:00	53.6	44.8	74.8
30	4/29/24 16:00	47	37	64.3
31	4/30/24 8:00	39.6	38.3	59.8
32	4/30/24 12:00	45.2	31.4	54.7
33	4/30/24 16:00	43	25.6	59.8

DIRECT

DIRECT

IMPORT



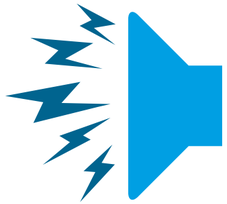
DATABASE SCHEMA

TRAFFIC

YP_TRAFFIC

- ID
- TS
- currSpeed
- freeFlowSpeed
- currentTravelTime
- freeFlowTravelTime
- roadClosure

SOUND



YP_NOISE

- ID
- TS
- AVG
- MIN
- MAX

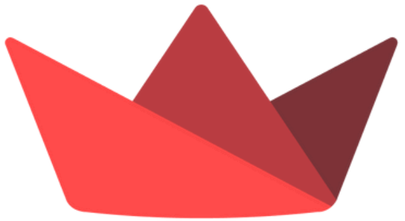
AIR

YP_AQI

- ID
- TS
- AQI_US
- PM25

DATA SHARING API

DATA VISUALIZATION



Streamlit

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