

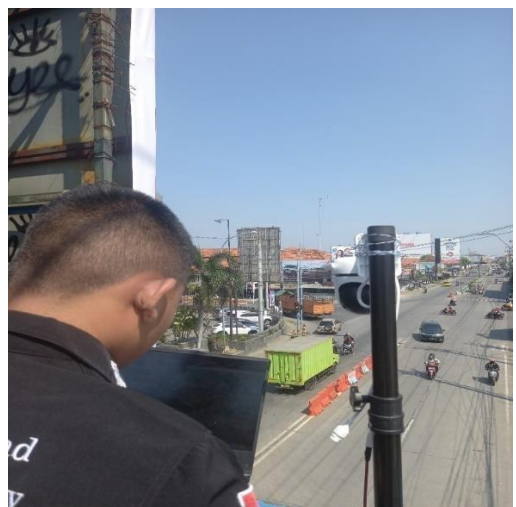
LAMPIRAN

Lampiran 1. Sumber Code

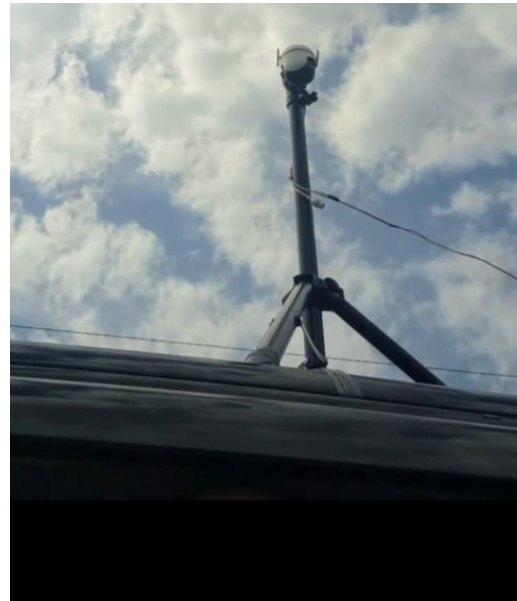
```
import cv2
from ultralytics import YOLO

model = YOLO('yolo11n.pt')
```

Lampiran 2 Dokumentasi Pengujian Statis



Lampiran 3 Dokumentasi Pengujian Dinamis



Lampiran 4 Dokumentasi Pengujian Manual

Save and Next			Reset		X
					
0	0	0	1	4	190
		↑ car factor: 1 ↓			
31 % 0				42 28-06-2025 16.58.06	
Save and Next			Reset		X
					
0	0	0	0	2	146
		↑ car factor: 1 ↓			
34 % 0				18 27-06-2025 17.00.16	

Save and Next			Reset		x
					
0	0	0	1	33	60

 85 % 0	↑ car factor: 1 ↓	 25 29-06-2025 09.39.21
--	----------------------------	---

Save and Next			Reset		x
					
0	0	0	2	20	580

 72 % 0	↑ car factor: 1 ↓	 240 30-06-2025 23.21.54
--	----------------------------	--

Save and Next			Reset		x
					
0	0	0	3	6	70

 78 % 0	↑ car factor: 1 ↓	 43 29-06-2025 10.15.49
--	----------------------------	---

30 Mei 2025

6.45 menit

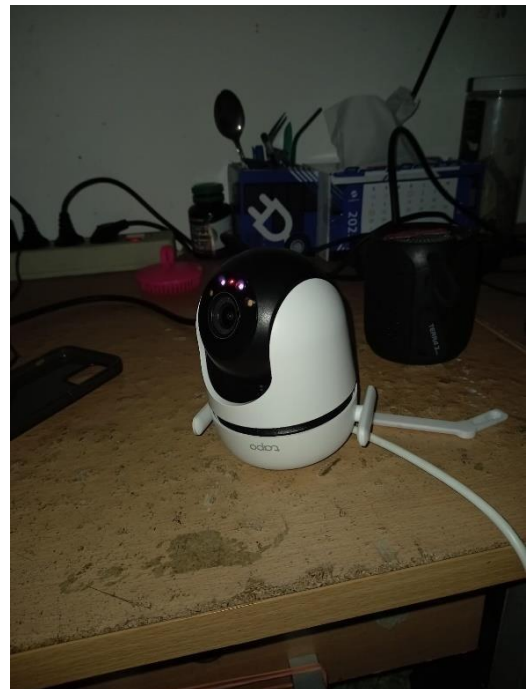
Kepala Korpri: Ligit

Jalan: Jalan Korpri

Pengukuran	Jarak (km)	Waktu (menit)	Diselip	Meskipun	Jumlah kendaraan yang lewat
Pengukuran 1	4.3	8.00	11	5	
Pengukuran 2	4.3	7.30	4	9	
Pengukuran 3	4.3	7.45	6	9	
Pengukuran 4	4.3	7.17	7	5	
Pengukuran 5	4.3	8.10	8	4	
Pengukuran 6	4.3	8.00	10	5	
Pengukuran 7	4.3	7.30	5	3	
Pengukuran 8	4.3	7.20	6	5	

Pengukuran	Waktu
Pengukuran 1	14.14 - 14.22
Pengukuran 2	14.25 - 14.33
Pengukuran 3	14.45
Pengukuran 4	14.55
Pengukuran 5	15.15
Pengukuran 6	15.35
Pengukuran 7	15.45
Pengukuran 8	16.15

Lampiran 6 Catatan survey MCO



Lampiran 5 Uji CCTV



Lampiran 8 Pengujian Luxmeter



Lampiran 7 Pendeteksi Jalan

lampiran 9 Website

Perangkat Lokasi Penelitian

Patung Ki Gede Sebayu

Kode Perangkat DEV007

Operator: Admin

Terakhir Aktif: 15/07/2025 00:44

Edit

Hapus

Pantura

Kode Perangkat DEV002

Operator: User Satu

Terakhir Aktif: 15/07/2025 00:29

Edit

Hapus

Jl.Gajah Mada

Kode Perangkat DEV003

Operator: User Dua

Terakhir Aktif: 15/07/2025 00:28

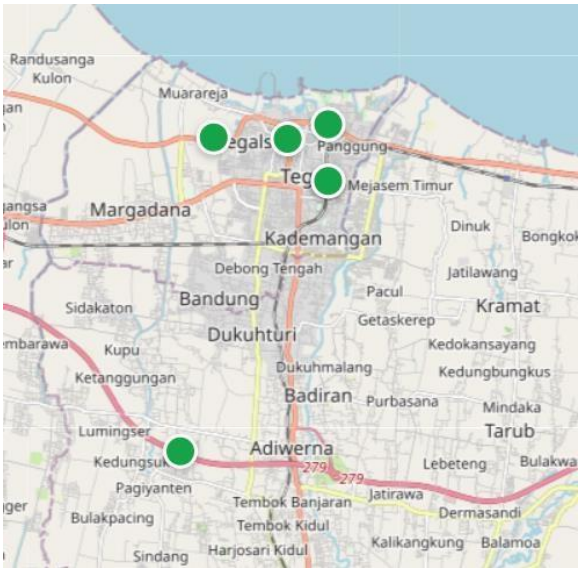
Edit

Hapus

Data Pengguna

NO	PENGGUNA	PERAN	STATUS	AKSI
1	Admin admin1@example.com		AKTIF	
2	User Satu user2@example.com		AKTIF	
3	User Dua user3@example.com		AKTIF	

Peta Lokasi Perangkat



Hasil Perhitungan Perangkat

VEHICLE COUNTER

Dashboard

Perangkat

Data Perhitungan

Pengguna

Dokumentasi

Data Perhitungan Lalu Lintas

Beranda / Perhitungan / Data Perhitungan

TANGGAL MULAI10/07/2025TANGGAL AKHIR11/07/2025PERANGKATPantura

FILTER CEPAT: Hari Ini7 Hari Terakhir30 Hari TerakhirTahun Ini

NO	WAKTU	LOKASI	CUACA	MOBIL	MOTOR	TRUK	BUS	TOTAL
1	11 Jul 2025 23:00 WIB	Pantura -6.856148, 109.144302	Cerah	45	87	5	1	139
2	11 Jul 2025 22:00 WIB	Pantura -6.856148, 109.144302	Cerah	20	95	7	1	123
3	11 Jul 2025 21:00 WIB	Pantura -6.856148, 109.144302	Cerah	28	75	7	1	111
4	11 Jul 2025 20:00 WIB	Pantura -6.856148, 109.144302	Cerah	33	53	4	0	90
5	11 Jul 2025 19:00 WIB	Pantura -6.856148, 109.144302	Cerah	0	4	8	4	16
6	11 Jul 2025 18:00 WIB	Pantura -6.856148, 109.144302	Cerah	48	30	4	0	82
7	11 Jul 2025 17:00 WIB	Pantura -6.856148, 109.144302	Cerah	5	40	6	1	52
8	11 Jul 2025 16:00 WIB	Pantura -6.856148, 109.144302	Cerah	50	59	9	1	119
9	11 Jul 2025 15:00 WIB	Pantura -6.856148, 109.144302	Cerah	35	93	7	0	135
10	11 Jul 2025 14:00 WIB	Pantura -6.856148, 109.144302	Cerah	41	64	7	3	115

Menampilkan 1 hingga 10 dari 48 hasil

123...5

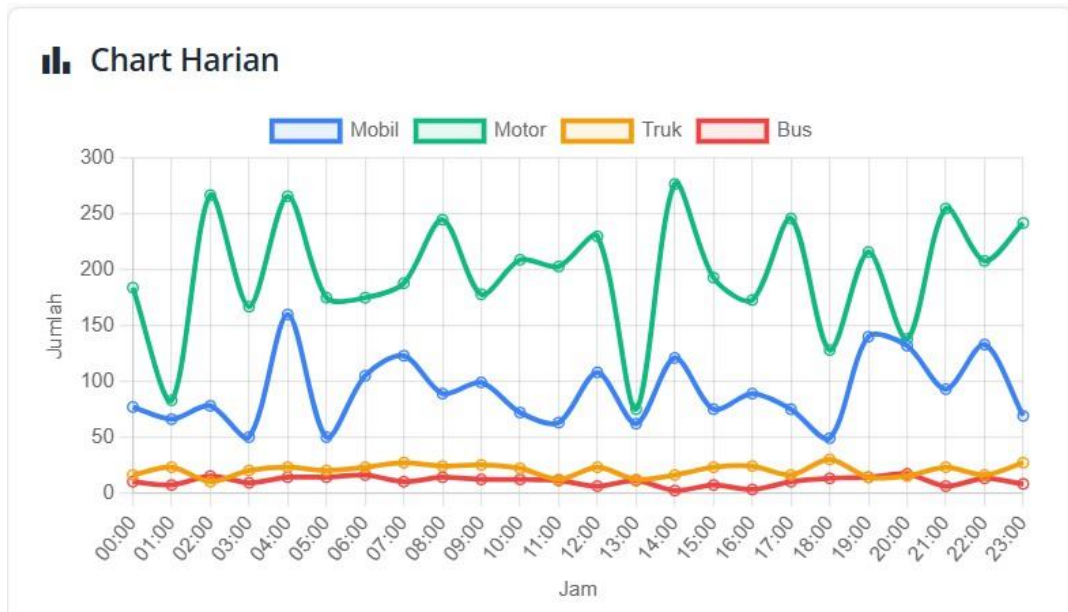
1

Go

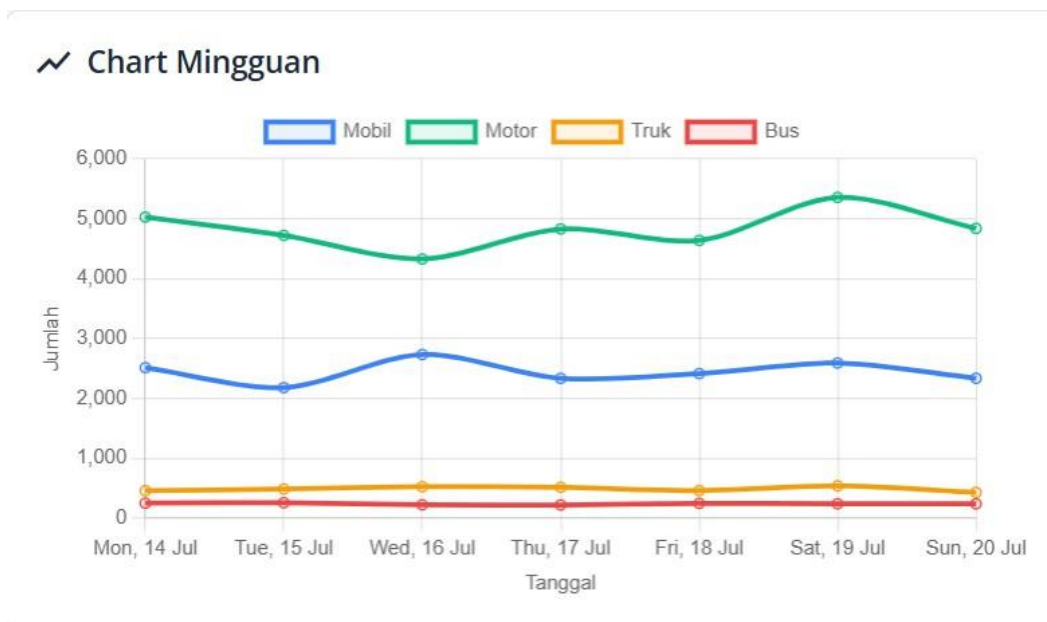
© 2025 Dimas Ardi Kusuma.

Politeknik Keselamatan Transportasi Jalan

Grafik Hasil Perhitungan Harian



Grafik hasil Perhitungan Mingguan



No	Waktu	Perangkat	Latitude	Longitude	Alun Alun Kota Tegal				Total
					Mobil	Motor	Truk	Bus	
1	00.00-01.00	Vehicle Counter 001	-6,867371	109,138579	26	39	5	4	74
2	01.00-02.00	Vehicle Counter 001	-6,867371	109,138579	22	20	8	1	51
3	02.00-03.00	Vehicle Counter 001	-6,867371	109,138579	27	17	6	0	50
4	03.00-04.00	Vehicle Counter 001	-6,867371	109,138579	39	81	8	2	130
5	04.00-05.00	Vehicle Counter 001	-6,867371	109,138579	20	86	5	3	114
6	05.00-06.00	Vehicle Counter 001	-6,867371	109,138579	2	60	0	4	66
7	06.00-07.00	Vehicle Counter 001	-6,867371	109,138579	30	13	1	4	48
8	07.00-08.00	Vehicle Counter 001	-6,867371	109,138579	14	59	8	2	83
9	08.00-09.00	Vehicle Counter 001	-6,867371	109,138579	17	20	10	1	48
10	09.00-10.00	Vehicle Counter 001	-6,867371	109,138579	49	78	10	1	138
11	10.00-11.00	Vehicle Counter 001	-6,867371	109,138579	15	4	4	4	27
12	11.00-12.00	Vehicle Counter 001	-6,867371	109,138579	40	70	5	1	116
13	12.00-13.00	Vehicle Counter 001	-6,867371	109,138579	12	36	3	4	55
14	13.00-14.00	Vehicle Counter 001	-6,867371	109,138579	37	0	1	4	42
15	14.00-15.00	Vehicle Counter 001	-6,867371	109,138579	4	54	8	3	69
16	15.00-16.00	Vehicle Counter 001	-6,867371	109,138579	4	35	3	0	42
17	16.00-17.00	Vehicle Counter 001	-6,867371	109,138579	30	94	4	2	130
18	17.00-18.00	Vehicle Counter 001	-6,867371	109,138579	31	3	10	2	46
19	18.00-19.00	Vehicle Counter 001	-6,867371	109,138579	0	83	4	4	91
20	19.00-20.00	Vehicle Counter 001	-6,867371	109,138579	12	13	4	3	32
21	20.00-21.00	Vehicle Counter 001	-6,867371	109,138579	16	29	6	1	52
22	21.00-22.00	Vehicle Counter 001	-6,867371	109,138579	2	89	5	5	101
23	22.00-23.00	Vehicle Counter 001	-6,867371	109,138579	6	13	9	1	29
24	23.00-00.00	Vehicle Counter 001	-6,867371	109,138579	31	90	2	5	128
Jumlah Perhari					486	1086	129	61	1762

lampiran 10 Pengujian statis Alun-Alun Kota tegal

No	Waktu	Perangkat	Latitude	Longitude	Bundaran Patung Ki Gede Sebayu				Total
					Mobil	Motor	Truk	Bus	
1	00.00-01.00	Vehicle Counter 002	-6,873189	109,144855	31	58	9	5	103
2	01.00-02.00	Vehicle Counter 002	-6,873189	109,144855	50	40	6	0	96
3	02.00-03.00	Vehicle Counter 002	-6,873189	109,144855	29	49	4	3	85
4	03.00-04.00	Vehicle Counter 002	-6,873189	109,144855	6	23	5	5	39
5	04.00-05.00	Vehicle Counter 002	-6,873189	109,144855	21	61	7	3	92
6	05.00-06.00	Vehicle Counter 002	-6,873189	109,144855	47	54	0	2	103
7	06.00-07.00	Vehicle Counter 002	-6,873189	109,144855	32	5	8	0	45
8	07.00-08.00	Vehicle Counter 002	-6,873189	109,144855	15	88	4	1	108
9	08.00-09.00	Vehicle Counter 002	-6,873189	109,144855	8	61	2	0	71
10	09.00-10.00	Vehicle Counter 002	-6,873189	109,144855	14	97	8	0	119
11	10.00-11.00	Vehicle Counter 002	-6,873189	109,144855	14	38	9	0	61
12	11.00-12.00	Vehicle Counter 002	-6,873189	109,144855	48	87	3	3	141
13	12.00-13.00	Vehicle Counter 002	-6,873189	109,144855	2	6	4	5	17
14	13.00-14.00	Vehicle Counter 002	-6,873189	109,144855	19	49	4	1	73
15	14.00-15.00	Vehicle Counter 002	-6,873189	109,144855	1	24	4	2	31
16	15.00-16.00	Vehicle Counter 002	-6,873189	109,144855	8	17	8	3	36
17	16.00-17.00	Vehicle Counter 002	-6,873189	109,144855	11	64	5	1	81
18	17.00-18.00	Vehicle Counter 002	-6,873189	109,144855	3	46	5	5	59
19	18.00-19.00	Vehicle Counter 002	-6,873189	109,144855	19	40	3	1	63
20	19.00-20.00	Vehicle Counter 002	-6,873189	109,144855	11	92	1	1	105
21	20.00-21.00	Vehicle Counter 002	-6,873189	109,144855	45	20	9	4	78
22	21.00-22.00	Vehicle Counter 002	-6,873189	109,144855	4	90	9	4	107
23	22.00-23.00	Vehicle Counter 002	-6,873189	109,144855	25	9	8	2	44
24	23.00-00.00	Vehicle Counter 002	-6,873189	109,144855	47	78	10	4	139
Jumlah Perhari					510	1196	135	55	1896

lampiran 11 pengujian Statis Bundaran patung ki gede sebayu

No	Waktu	Perangkat	Latitude	Longitude	Simpang Depan Kampus PKTJ				Total
					Mobil	Motor	Truk	Bus	
2	00.00-01.00	Vehicle Counter 002	-6,869224	109,145439	26	25	8	3	62
4	01.00-02.00	Vehicle Counter 002	-6,869224	109,145439	11	22	5	3	41
6	02.00-03.00	Vehicle Counter 002	-6,869224	109,145439	20	69	0	3	92
8	03.00-04.00	Vehicle Counter 002	-6,869224	109,145439	17	88	9	1	115
10	04.00-05.00	Vehicle Counter 002	-6,869224	109,145439	45	67	0	0	112
12	05.00-06.00	Vehicle Counter 002	-6,869224	109,145439	34	20	1	4	59
14	06.00-07.00	Vehicle Counter 002	-6,869224	109,145439	2	50	0	1	53
16	07.00-08.00	Vehicle Counter 002	-6,869224	109,145439	38	45	9	1	93
18	08.00-09.00	Vehicle Counter 002	-6,869224	109,145439	44	23	1	2	70
20	09.00-10.00	Vehicle Counter 002	-6,869224	109,145439	24	73	3	4	104
22	10.00-11.00	Vehicle Counter 002	-6,869224	109,145439	17	53	1	2	73
24	11.00-12.00	Vehicle Counter 002	-6,869224	109,145439	7	39	9	3	58
26	12.00-13.00	Vehicle Counter 002	-6,869224	109,145439	19	49	7	0	75
28	13.00-14.00	Vehicle Counter 002	-6,869224	109,145439	34	71	1	4	110
30	14.00-15.00	Vehicle Counter 002	-6,869224	109,145439	40	29	4	1	74
32	15.00-16.00	Vehicle Counter 002	-6,869224	109,145439	27	46	10	4	87
34	16.00-17.00	Vehicle Counter 002	-6,869224	109,145439	8	25	5	1	39
36	17.00-18.00	Vehicle Counter 002	-6,869224	109,145439	11	5	5	3	24
38	18.00-19.00	Vehicle Counter 002	-6,869224	109,145439	29	77	1	1	108
40	19.00-20.00	Vehicle Counter 002	-6,869224	109,145439	1	64	3	4	72
42	20.00-21.00	Vehicle Counter 002	-6,869224	109,145439	37	88	7	3	135
44	21.00-22.00	Vehicle Counter 002	-6,869224	109,145439	33	94	8	3	138
46	22.00-23.00	Vehicle Counter 002	-6,869224	109,145439	14	26	2	1	43
48	23.00-00.00	Vehicle Counter 002	-6,869224	109,145439	0	19	4	2	25
Jumlah perhari					679	1270	109	54	2113

lampiran 12 Pengujian Statis Jl. Simpang depan kampus PKTJ

No	Waktu	Perangkat	Latitude	Longitude	Simpang (Pantura)				Total
					Mobil	Motor	Truk	Bus	
1	00.00-01.00	Vehicle Counter 002	-6,858306	109,14811	10	49	0	2	61
2	01.00-02.00	Vehicle Counter 002	-6,858306	109,14811	10	29	5	1	45
3	02.00-03.00	Vehicle Counter 002	-6,858306	109,14811	14	49	4	1	68
4	03.00-04.00	Vehicle Counter 002	-6,858306	109,14811	17	66	2	2	87
5	04.00-05.00	Vehicle Counter 002	-6,858306	109,14811	29	62	4	0	95
6	05.00-06.00	Vehicle Counter 002	-6,858306	109,14811	18	86	4	2	110
7	06.00-07.00	Vehicle Counter 002	-6,858306	109,14811	22	82	8	4	116
8	07.00-08.00	Vehicle Counter 002	-6,858306	109,14811	41	20	5	3	69
9	08.00-09.00	Vehicle Counter 002	-6,858306	109,14811	36	86	6	0	128
10	09.00-10.00	Vehicle Counter 002	-6,858306	109,14811	14	68	6	0	88
11	10.00-11.00	Vehicle Counter 002	-6,858306	109,14811	24	29	5	1	59
12	11.00-12.00	Vehicle Counter 002	-6,858306	109,14811	41	2	10	1	54
13	12.00-13.00	Vehicle Counter 002	-6,858306	109,14811	24	93	7	5	129
14	13.00-14.00	Vehicle Counter 002	-6,858306	109,14811	35	82	5	5	127
15	14.00-15.00	Vehicle Counter 002	-6,858306	109,14811	44	30	3	0	77
16	15.00-16.00	Vehicle Counter 002	-6,858306	109,14811	10	55	10	0	75
17	16.00-17.00	Vehicle Counter 002	-6,858306	109,14811	38	30	5	0	73
18	17.00-18.00	Vehicle Counter 002	-6,858306	109,14811	20	77	0	5	102
19	18.00-19.00	Vehicle Counter 002	-6,858306	109,14811	3	18	5	0	26
20	19.00-20.00	Vehicle Counter 002	-6,858306	109,14811	29	79	8	0	116
21	20.00-21.00	Vehicle Counter 002	-6,858306	109,14811	11	3	8	4	26
22	21.00-22.00	Vehicle Counter 002	-6,858306	109,14811	2	96	6	2	106
23	22.00-23.00	Vehicle Counter 002	-6,858306	109,14811	17	52	4	2	75
24	23.00-00.00	Vehicle Counter 002	-6,858306	109,14811	34	15	10	0	59
Jumlah Perhari					543	1258	130	40	1971

lampiran 13 Pengujian statis Pantura

Data Perhitungan Lalu Lintas

No	Waktu	Perangkat	Lat	Lng	Cuaca	Mobil	Motor	Truk	Bus	Total
1	16 Jul 2025 23:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	31	50	7	1	89
2	16 Jul 2025 22:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	29	10	4	3	46
3	16 Jul 2025 21:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	33	25	10	5	73
4	16 Jul 2025 20:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	12	37	7	2	58
5	16 Jul 2025 19:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	26	31	2	0	59
6	16 Jul 2025 18:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	12	54	10	0	76
7	16 Jul 2025 17:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	39	15	2	5	61
8	16 Jul 2025 16:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	26	28	7	3	64
9	16 Jul 2025 15:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	39	74	3	4	120
10	16 Jul 2025 14:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	47	1	3	0	51
11	16 Jul 2025 13:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	47	32	10	0	89
12	16 Jul 2025 12:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	34	58	4	1	97
13	16 Jul 2025 11:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	17	55	6	2	80
14	16 Jul 2025 10:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	0	56	6	3	65
15	16 Jul 2025 09:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	24	52	4	3	83
16	16 Jul 2025 08:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	13	7	0	1	21
17	16 Jul 2025 07:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	6	27	3	4	40
18	16 Jul 2025 06:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	36	33	4	0	73
19	16 Jul 2025 05:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	31	46	5	0	82
20	16 Jul 2025 04:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	41	79	0	3	123
21	16 Jul 2025 03:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	43	45	7	5	100
22	16 Jul 2025 02:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	32	94	0	2	128
23	16 Jul 2025 01:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	0	84	1	0	85
24	16 Jul 2025 00:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	47	38	9	2	96
25	16 Jul 2025 00:00 WIB	Jl.Gajah Mada	-6.859472	109.134775	Cerah	33	60	5	5	103

lampiran 14 Hasil Output Website dalam bentuk format PDF