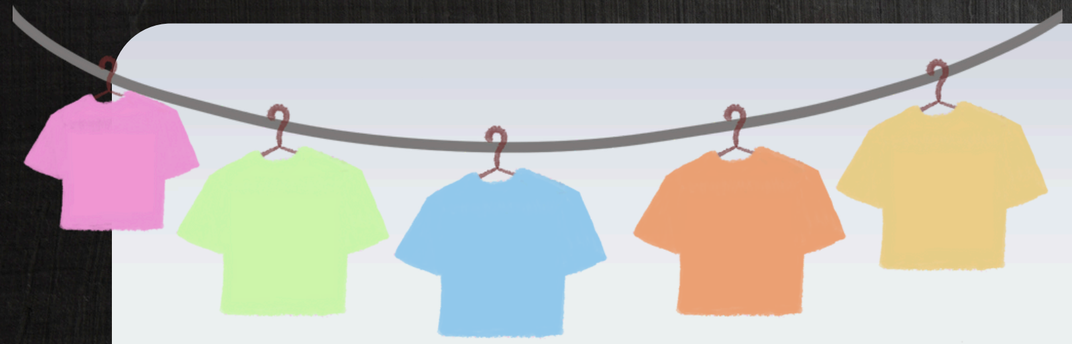
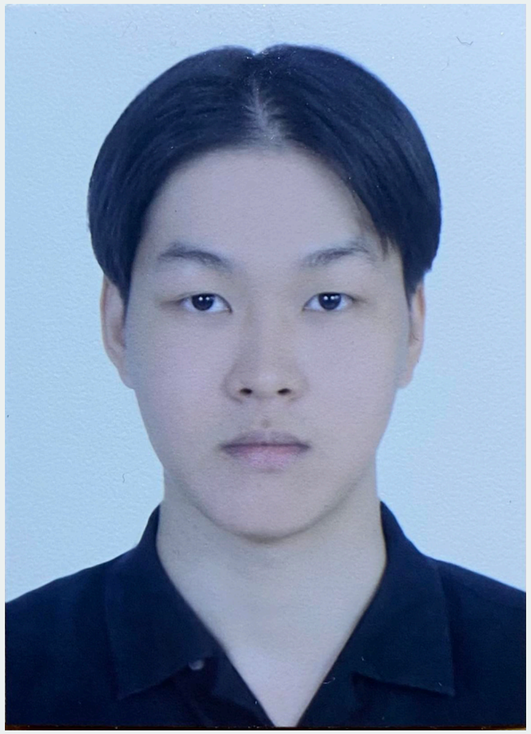


will the cloth dry, bro?

Let my clothes catch some rays

TEAM MEMBERS



THANUTHAM CHONSONGKRAM

6510545438

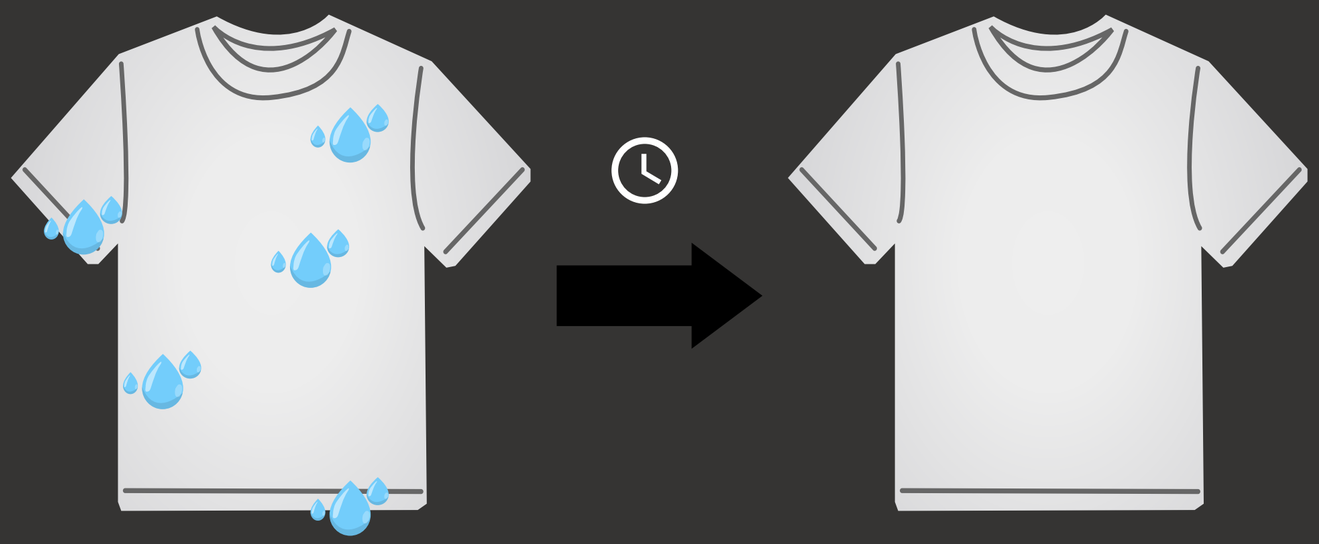
CHIRAPAT CHANMIT

6510545306

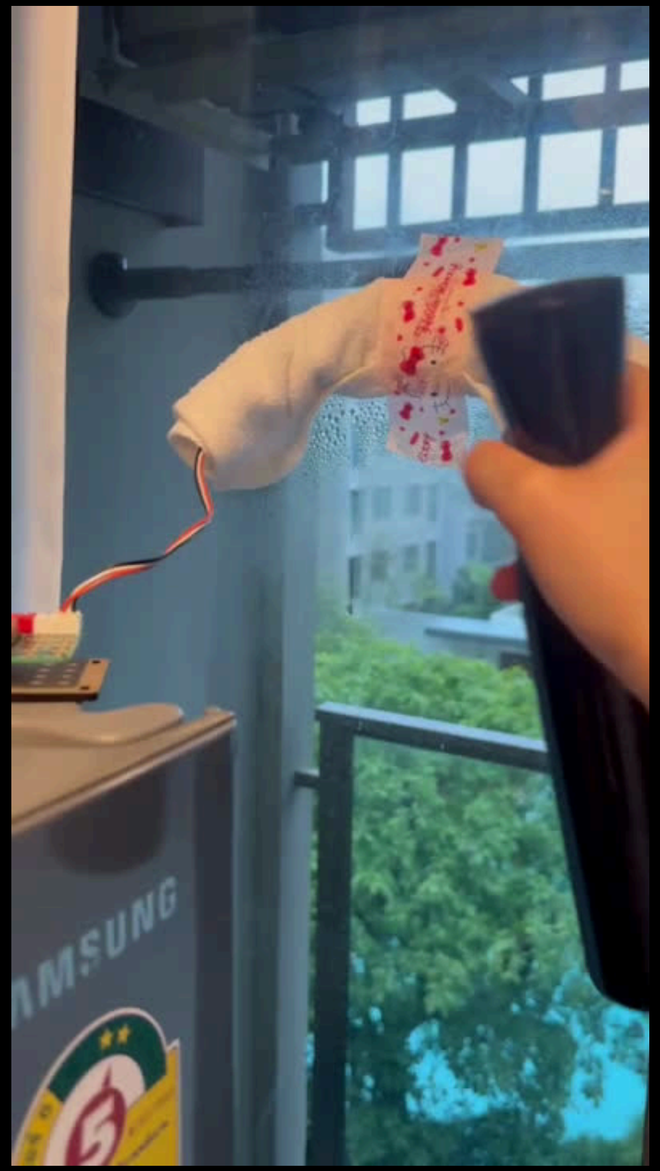
MOTIVATION

Embarking on this clothes drying project is not just about understanding the time it takes for clothes to dry, it's about diving into the science of efficiency and timing. By delving into this project, we're uncovering valuable insights that can revolutionize the way we approach laundry. Imagine being able to predict with precision the optimal time to start drying your clothes, saving both time and energy. This project isn't just about drying clothes; it's about unlocking the potential for smarter, more sustainable living. Let's embrace this challenge and pave the way for a future where every action is not just functional but also purposeful.

OVERVIEW



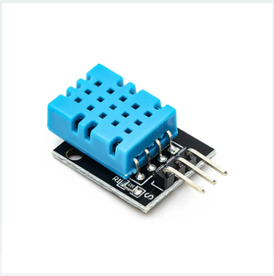
We'll use the clothes covering our sensor, which is connected to the kidbright board, to collect data into our database, then spray the water and check the fabric and surrounding humidity every 3 hours to determine the ideal drying time.

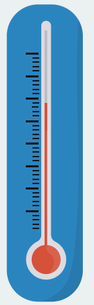

SAMSUNG

PRIMARY DATA

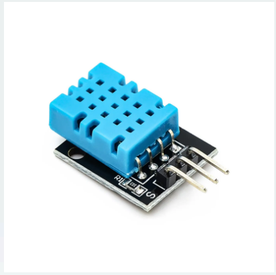
LIGHT INTENSITY FROM KIDBRIGHT

CLOTHES HUMIDITY FROM KY-015





CLOTHES TEMPERATURE FROM KY-015



EXAMPLE DATA OF PRIMARY DATA

	id	ts	lat	lon	light	clothestemp	clotheshumidity
Edit Copy Delete	1037	2024-04-30 03:06:24	13.8504	100.606	21	30	95
Edit Copy Delete	1038	2024-04-30 03:16:24	13.8504	100.606	21	30	94
Edit Copy Delete	1039	2024-04-30 03:26:25	13.8504	100.606	21	30	93
Edit Copy Delete	1040	2024-04-30 03:36:25	13.8504	100.606	21	30	92
Edit Copy Delete	1041	2024-04-30 03:46:25	13.8504	100.606	21	30	90
Edit Copy Delete	1042	2024-04-30 03:56:25	13.8504	100.606	20	30	88
Edit Copy Delete	1043	2024-04-30 04:06:26	13.8504	100.606	21	30	86
Edit Copy Delete	1044	2024-04-30 04:16:26	13.8504	100.606	21	30	84
Edit Copy Delete	1045	2024-04-30 04:26:26	13.8504	100.606	21	30	82
Edit Copy Delete	1046	2024-04-30 04:36:26	13.8504	100.606	20	30	79
Edit Copy Delete	1047	2024-04-30 04:46:27	13.8504	100.606	21	30	75
Edit Copy Delete	**1048**	**2024-04-30 04:56:27**	**13.8504**	**100.606**	**21**	**30**	**72**
Edit Copy Delete	1049	2024-04-30 05:06:27	13.8504	100.606	21	30	69
Edit Copy Delete	1050	2024-04-30 05:16:28	13.8504	100.606	21	30	67
Edit Copy Delete	1051	2024-04-30 05:26:28	13.8504	100.606	21	30	65
Edit Copy Delete	1052	2024-04-30 05:36:28	13.8504	100.606	21	31	64
Edit Copy Delete	1053	2024-04-30 05:46:28	13.8504	100.606	22	31	62
Edit Copy Delete	1054	2024-04-30 05:56:29	13.8504	100.606	22	31	61
Edit Copy Delete	1055	2024-04-30 06:06:29	13.8504	100.606	25	30	60
Edit Copy Delete	1056	2024-04-30 06:16:29	13.8504	100.606	28	31	61
Edit Copy Delete	1057	2024-04-30 06:26:29	13.8504	100.606	32	31	61
Edit Copy Delete	1058	2024-04-30 06:36:30	13.8504	100.606	36	31	60
Edit Copy Delete	1059	2024-04-30 06:46:30	13.8504	100.606	42	31	60
Edit Copy Delete	1060	2024-04-30 06:56:30	13.8504	100.606	44	31	59

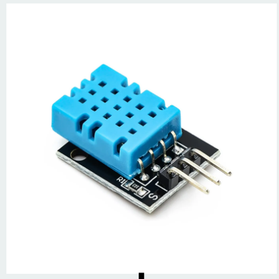
SECONDARY DATA

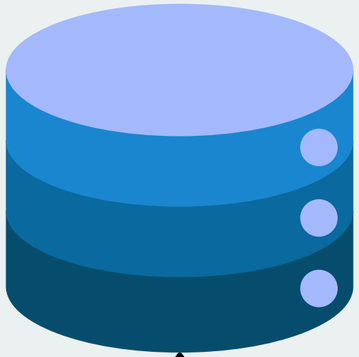
API FROM TMD

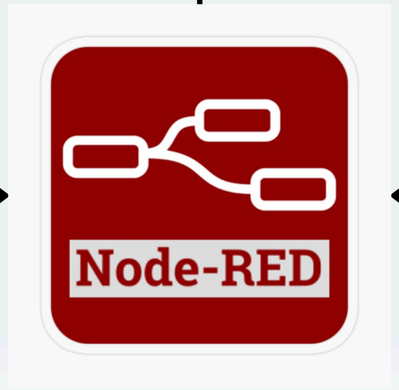
EXAMPLE DATA OF SECONDARY DATA

	id	ts	lat	lon	temp	airhumidity	rainfall
Edit Copy Delete	1	2024-04-22 13:00:00	13.9192	100.605	37.7	45	0
Edit Copy Delete	2	2024-04-22 16:00:00	13.9192	100.605	37.6	41	0
Edit Copy Delete	3	2024-04-22 19:00:00	13.9192	100.605	33.8	53	0
Edit Copy Delete	4	2024-04-22 22:00:00	13.9192	100.605	31.6	70	0
Edit Copy Delete	5	2024-04-23 01:00:00	13.9192	100.605	30.8	77	0
Edit Copy Delete	6	2024-04-23 04:00:00	13.9192	100.605	30.5	76	0
Edit Copy Delete	7	2024-04-23 07:00:00	13.9192	100.605	30.9	81	0
Edit Copy Delete	8	2024-04-23 10:00:00	13.9192	100.605	34.3	62	0
Edit Copy Delete	9	2024-04-23 13:00:00	13.9192	100.605	37	48	0
Edit Copy Delete	10	2024-04-23 16:00:00	13.9192	100.605	37	38	0
Edit Copy Delete	11	2024-04-23 19:00:00	13.9192	100.605	33	53	0
Edit Copy Delete	12	2024-04-23 22:00:00	13.9192	100.605	31.1	69	0
Edit Copy Delete	13	2024-04-24 01:00:00	13.9192	100.605	30.4	77	0
Edit Copy Delete	14	2024-04-24 04:00:00	13.9192	100.605	30.4	78	0
Edit Copy Delete	15	2024-04-24 07:00:00	13.9192	100.605	30.6	78	0
Edit Copy Delete	16	2024-04-24 10:00:00	13.9192	100.605	34.8	58	0
Edit Copy Delete	17	2024-04-24 13:00:00	13.9192	100.605	37.6	43	0
Edit Copy Delete	18	2024-04-24 16:00:00	13.9192	100.605	37.9	33	0
Edit Copy Delete	19	2024-04-24 19:00:00	13.9192	100.605	33.8	50	0
Edit Copy Delete	20	2024-04-24 22:00:00	13.9192	100.605	31	70	0
Edit Copy Delete	21	2024-04-25 01:00:00	13.9192	100.605	30.1	76	0
Edit Copy Delete	22	2024-04-25 04:00:00	13.9192	100.605	29.8	77	0

DATA COLLECTING

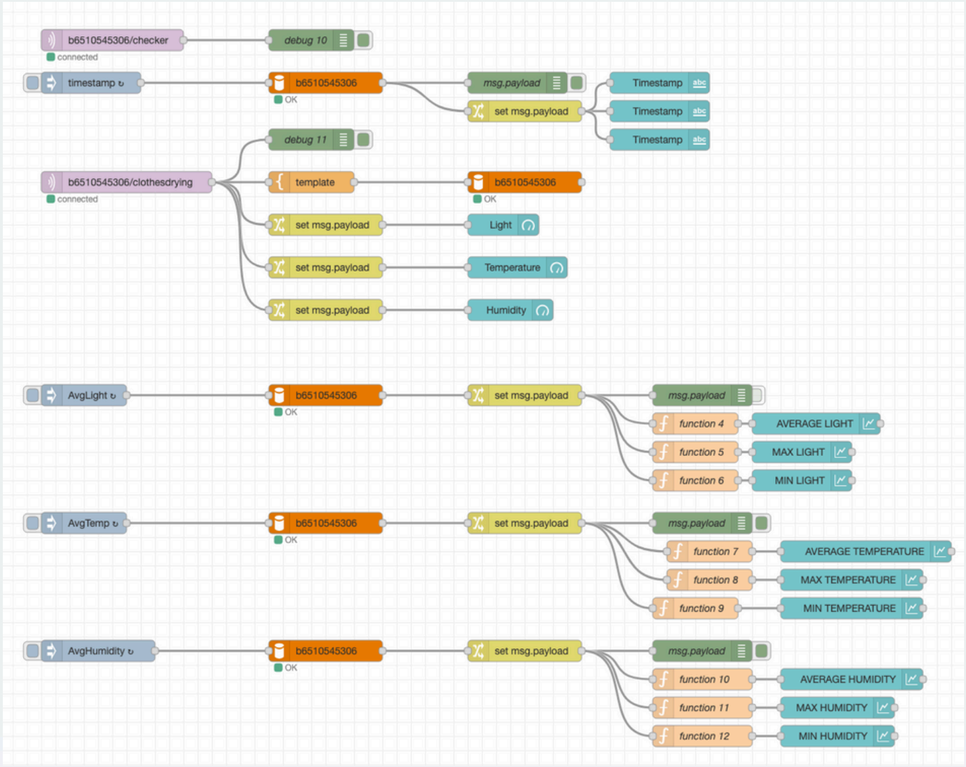




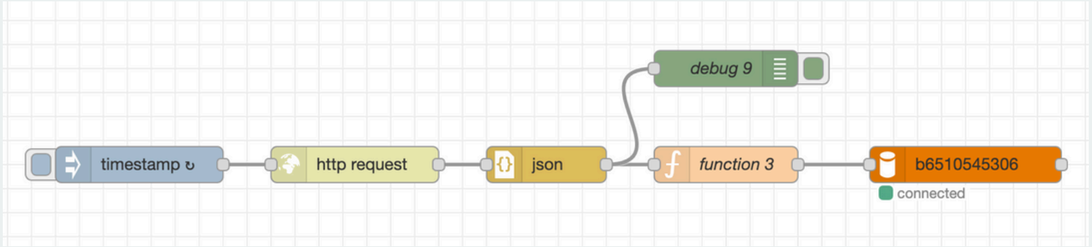


DATA COLLECTING

PRIMARY DATA



SECONDARY DATA



DATABASE SCHEMA

tmd_project	
id	int
lat	float
lon	float
temp	float
airhumidity	float
rainfall	float

clothesdrying	
id	int
lat	float
lon	float
light	float
clothestemp	float
clotheshumidity	float