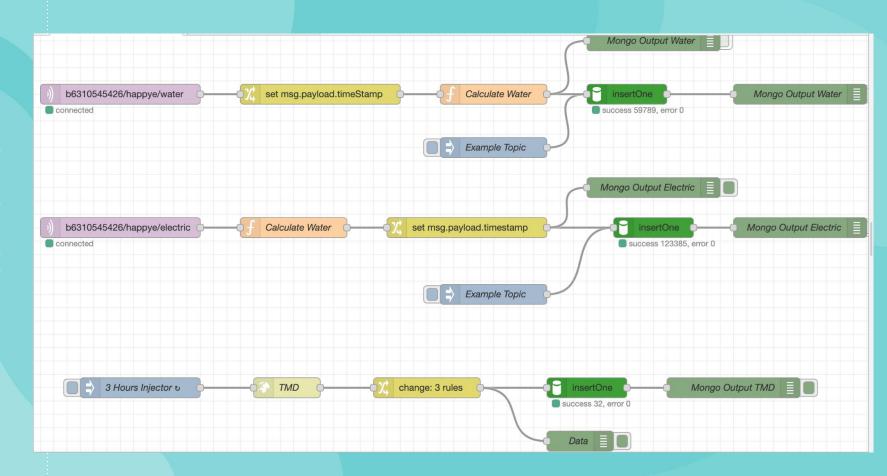
HAPPY PIG CARE TAKER

Happy E Water

Nowadays in Thailand, The weather is crazier day to day. Which lead us to consume more and more resources including Power and Water. So we want to know how temperature and rainfall affect the usage of water and electricity and usage of our electricity and water.

- OI ELECTRICITY PRICE IS TOO HIGH
- 02 WATER PRICE IS TOO HIGH
- 03 WE DON'T KNOW REASON WHY ELECTRICITY AND WATER PRICE IS TOO HIGH





GO LANG
For Backend

In this project we use golang for **BACKEND** because go is useful for carrying out programming for scalable servers and large software systems

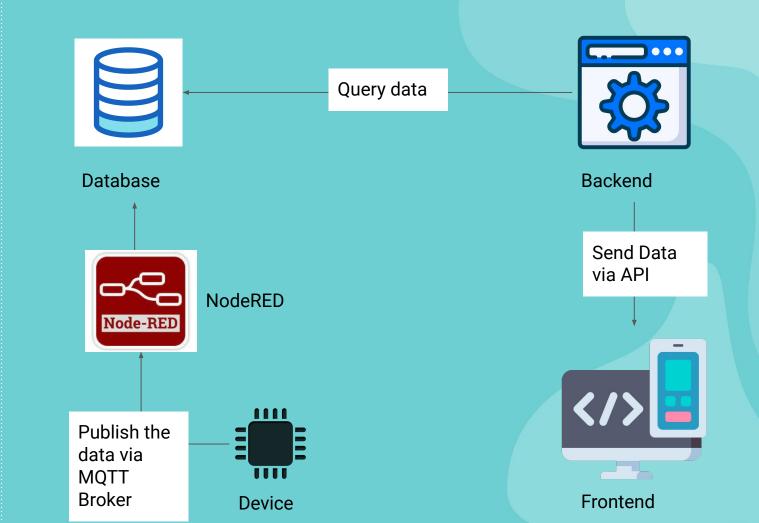


VUEFor Frontend

In this project we use VUE for **FRONTEND** because Vue 3 provides smaller bundle sizes, better performance, better scalability, and better TypeScript / IDE support



In this project we use MongoDB for **DATABASE** because it easy for developers to store, manage, and retrieve data when creating applications with most programming languages.





YF-S201 For measure Water usage

Primary



GY-712 For measure Electric usage

Primary



TMD For Temp, Rain data

Secondary

- OO PREFIX https://daq.ku.sirateek.dev
- OI GET UNIQUE DATE OF DATA
 /api/<tmd, elec, water>/date
- **GET DATA PER DY**/api/<tmd, elec, water>/perday

O3 GET ALL DATA /api/<tmd, elec, water>

GET DATA BY 3 HOURS /api/<elec, water>/3hour

ELECTRIC DATA SCHEMA

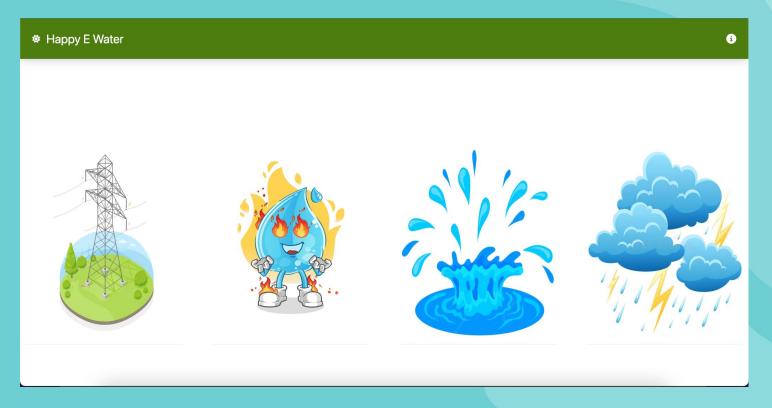
WATER DATA SCHEMA

```
__id : Object __id : Object
Watt : Float flowRate : Float
Amp : Float Water : Float
timestamp : Int timestamp : Int
}
```

TMD DATA SCHEMA

```
{
    __id : Object
    Temp : Float
    rain : Float
    timestamp : Int
}
```

https://daq.ku.sirateek.dev



Analyze Data with in form of GRAPH







