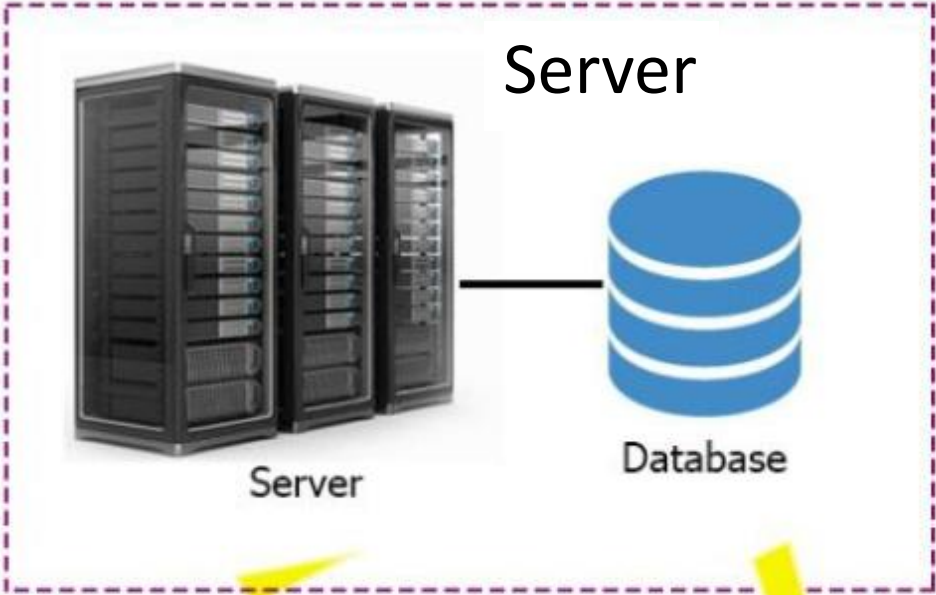


Internet-Based Air Pollution Monitoring

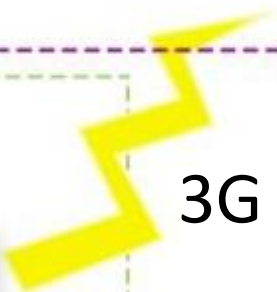
Tipok Suppakit

System Overview

System Overview



Hardware



3G



3G

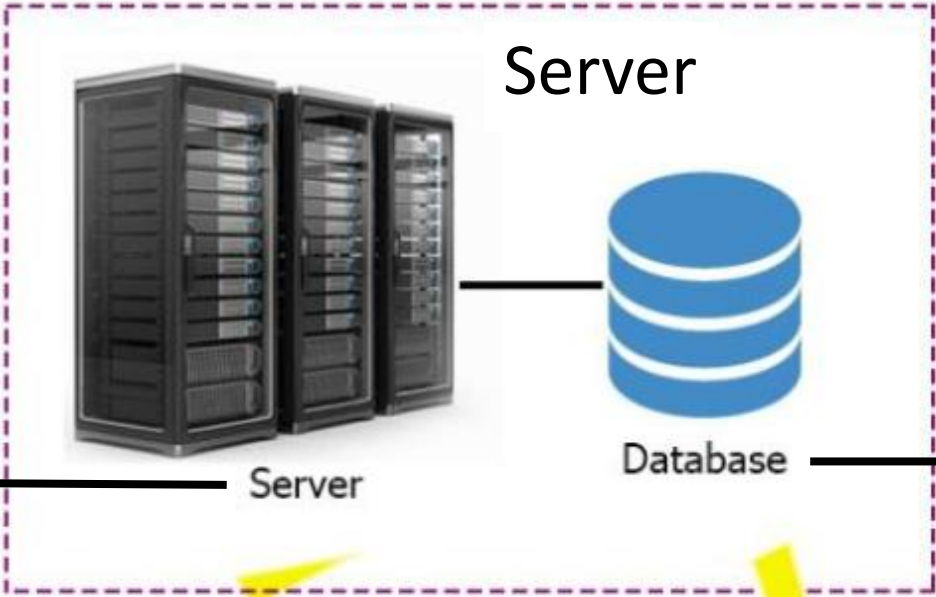
Web Application



Website

System Overview

KMITL Server

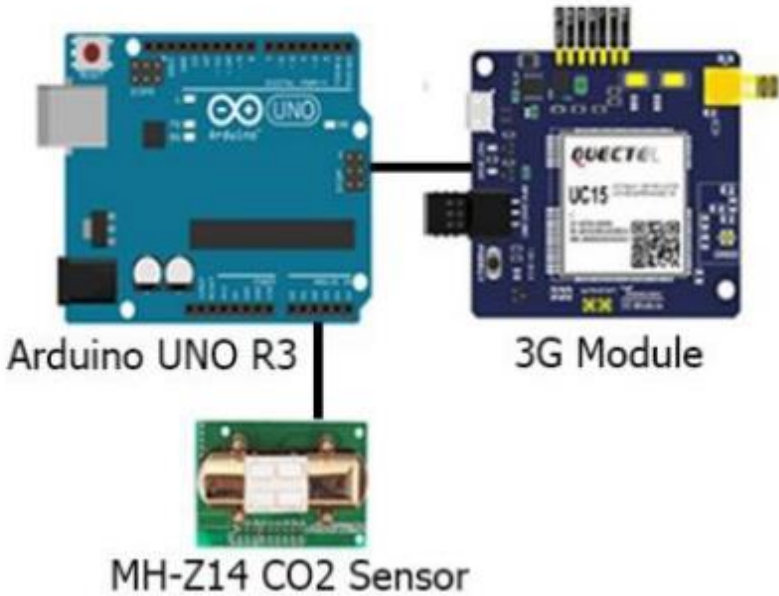


Server

Database

phpMyAdmin

Hardware



3G

3G

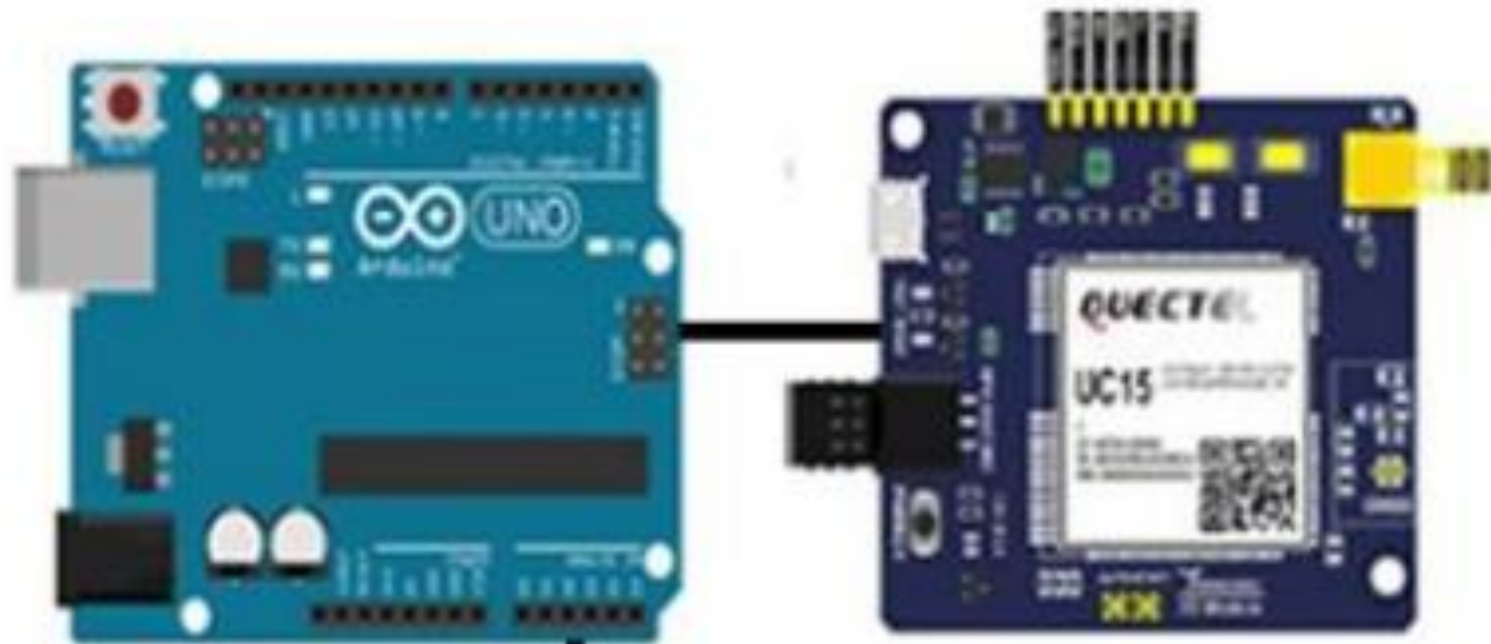
Web Application



Website

Hardware





Arduino UNO R3

3G Module

MH-Z14 CO2 Sensor

Website

Project4S

Internet-Based Air Pollution Monitoring

Device 1

Device 2

Automation Engineering

Air Pollution

CO2 Status Location History Device1



CO2 in the air?

Device 1

496.18 ppm


Datetime : 2017-05-26 22:17:01

Status

CO2 level

 Normal (< 1000 ppm)

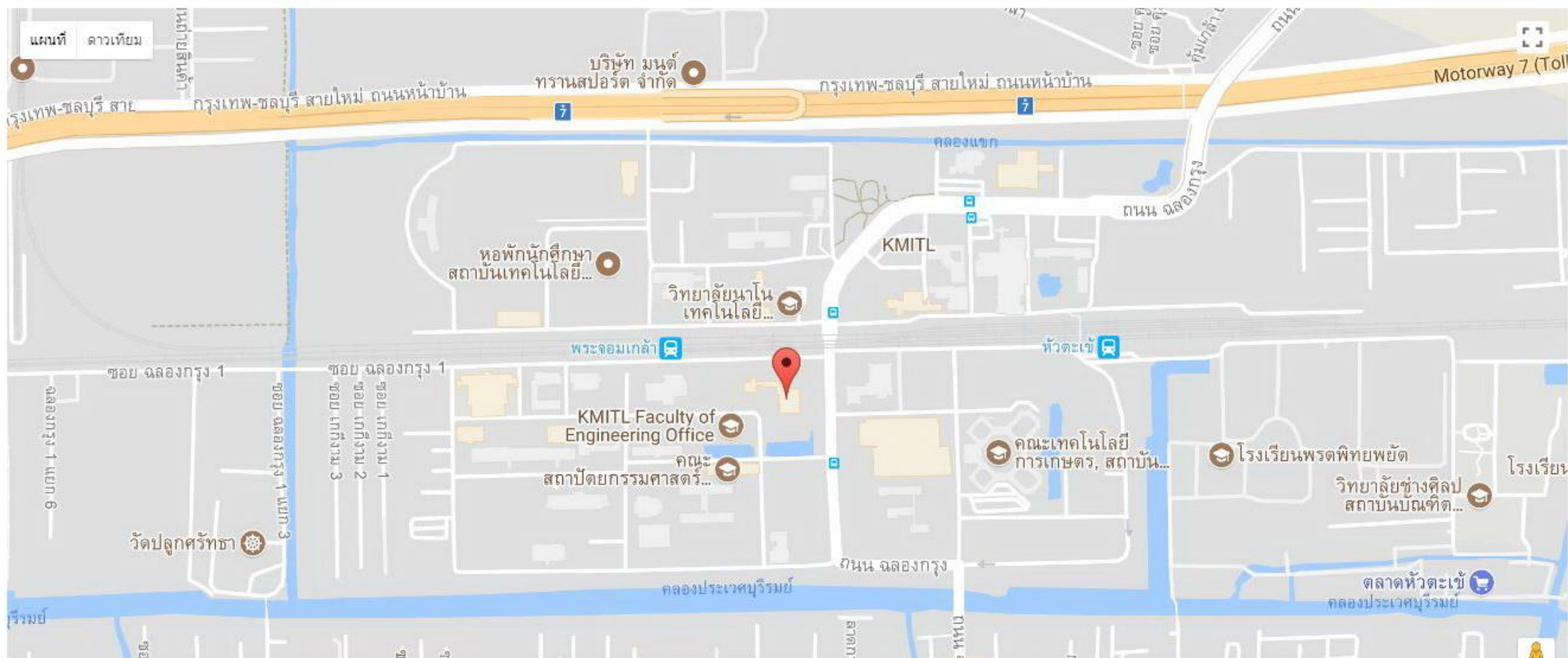
 Warning! (1000 - 4000 ppm)

 Danger!! (> 4000 ppm)

Device 1

 Normal

Location



History Device 1

Please select date to view the history data from device 1

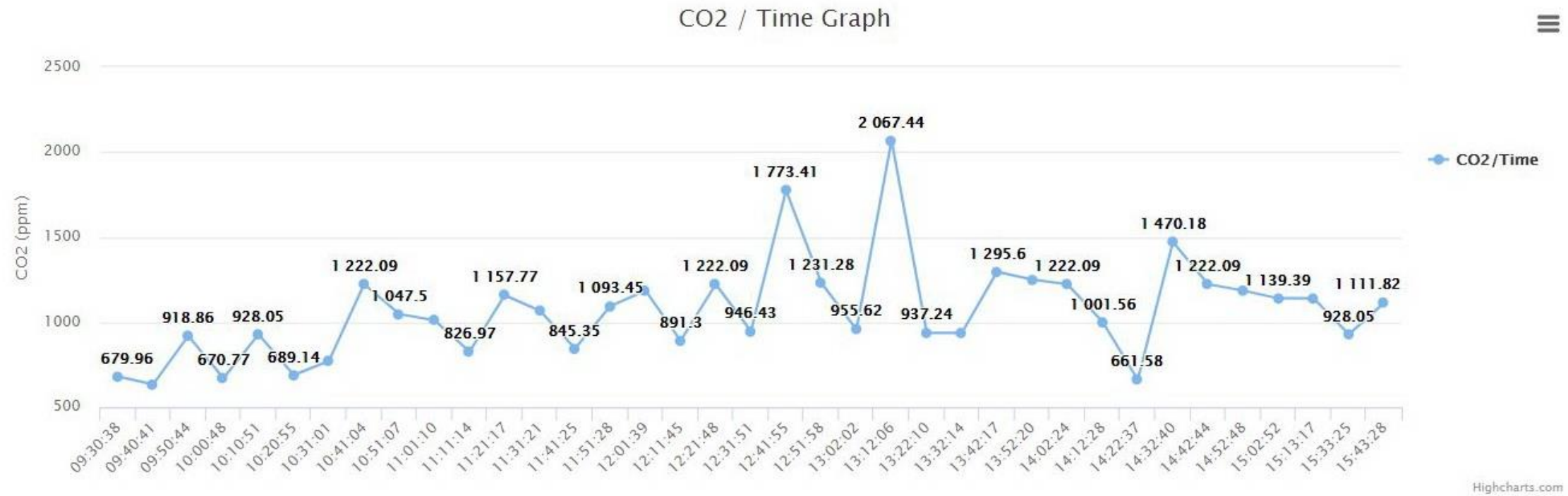
Date Month Year

Show Data

History data in the selected date

Have Data in Selected Date

History data in the selected date



Have Data in Selected Date

Date/time	CO2
2017-04-25 09:30:38	679.96
2017-04-25 09:40:41	634.01
2017-04-25 09:50:44	918.86
2017-04-25 10:00:48	670.77
2017-04-25 10:10:51	928.05
2017-04-25 10:20:55	689.14
2017-04-25 10:31:01	771.84
2017-04-25 10:41:04	1222.09
2017-04-25 10:51:07	1047.5
2017-04-25 11:01:10	1010.75
2017-04-25 11:11:14	826.97

No Data in Selected date

History data in the selected date

CO2 / Time Graph

CO2 (ppm)

CO2/Time

Highcharts.com

Thank you