FLOOD WATER MANAGEMNET AND EARLY WARNING SYSTEM

INTERNET OF THINGS - phase 4 - group1 project

clg name: Madha Institute of Engineering and Technology

name: Elden Nicholas. N

reg no: 211221205004

naan mudhalvan id: au211221205004

OBJECTIVE:

- To continuously monitor the temperature and humidity of the environment.
- Utilizing web API, you can use the SMS system to warn individuals.
- To instantly determine the water level.

APPLICATION:

- early warnings of a flood
- provides current information on the temperature, humidity, and water level.

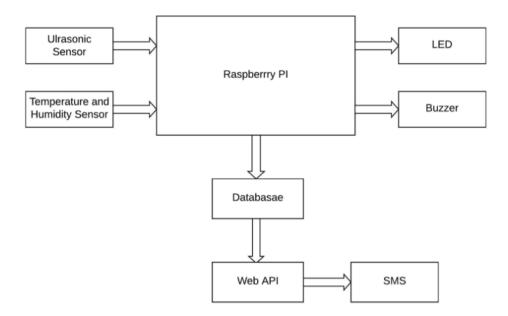
LITERARY REVIEW:

"IOT-based-Cantralized-Remote-Sensing-for-Early-Flood-Detection" .The goal of this telemetry-based project is to monitor the flood status as soon as possible and transmit an alert on the website in case of danger. Through IOT, the notice delivered may be read globally. The microcontroller is attached to an ultrasonic sensor that detects the amount of water in dams or rivers and transmits that data to the microcontroller. The GPRS uses the IOT network to transmit the notice over the internet to the website.

A safe, well-prepared, and less-casualty society is envisioned in "Flood Monitoring and Early Warning System Using Ultrasonic Sensor" before, during, and after typhoon disaster.

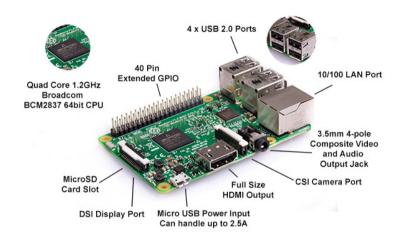
Additionally, the model encourages the use of real-time monitoring systems via created webbased applications and SMS notification systems as an efficient means of information dissemination, particularly in remote locations. Giving the system two-way communication allows the community more options in receiving crucial information.

BLOCK DIAGRAM:



as we discussed nd provided the hardware components needed in previous phase document:

RASBERRY Pi:



ULTRASONIC SENSOR:



BUZZER:

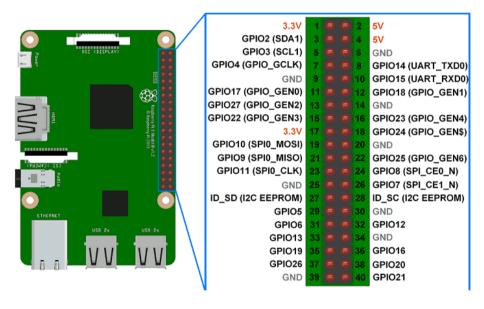


TEMPERATURE AND HUMIDITY SENSOR(DHT11):

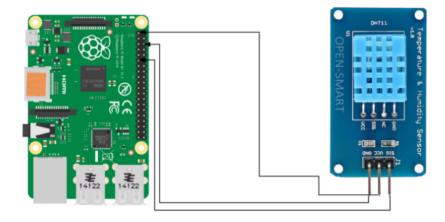


DESIGN AND IMPLEMENTATION:

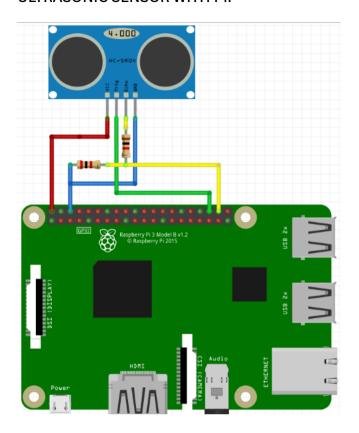
RASPBERRY PI:



DTH11 SENSOR:



ULTRASONIC SENSOR WITH PI:



TEAM MEMBERS:

- 1.211221205001
- 2.211221205002
- 3.211221205003
- 4.211221205004
- 5.211221205005
- 6.211221205006