PROJECT SCOPE STATEMENT

Water Quality Monitoring System

Presented by,

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DESIGN THINKING :

1. Project Objective

* Agriculture is the backbone of our country and it is very important to know the parameter of soil and water for efficient harvesting.
The various parameters that can be monitered are Soil moisture, pH level of water, Temperature , etc.
* We previously measured these parameters in different tutorials but today we will not only combining them but also display them on a webpage so that can be monitored from any wherein the world.

2.IOT SENSOR DESIGN :

- Analog pH sensor is designed to measure the pH value of a solution and show the acidity or alkalinity of the substance.
- It is commonly used in various applications such as agriculture , waste water treatment , Industries , environmental monitoring, etc.
- The module has an on-board voltages regulator chip which supports the wide voltage supply of 3.3-5.5V DC which is compatible with 5V and 3.3V of any control board like Ardino.
- We previously used a PH sensor with Ardino to measure the Ph values of liquid solution.

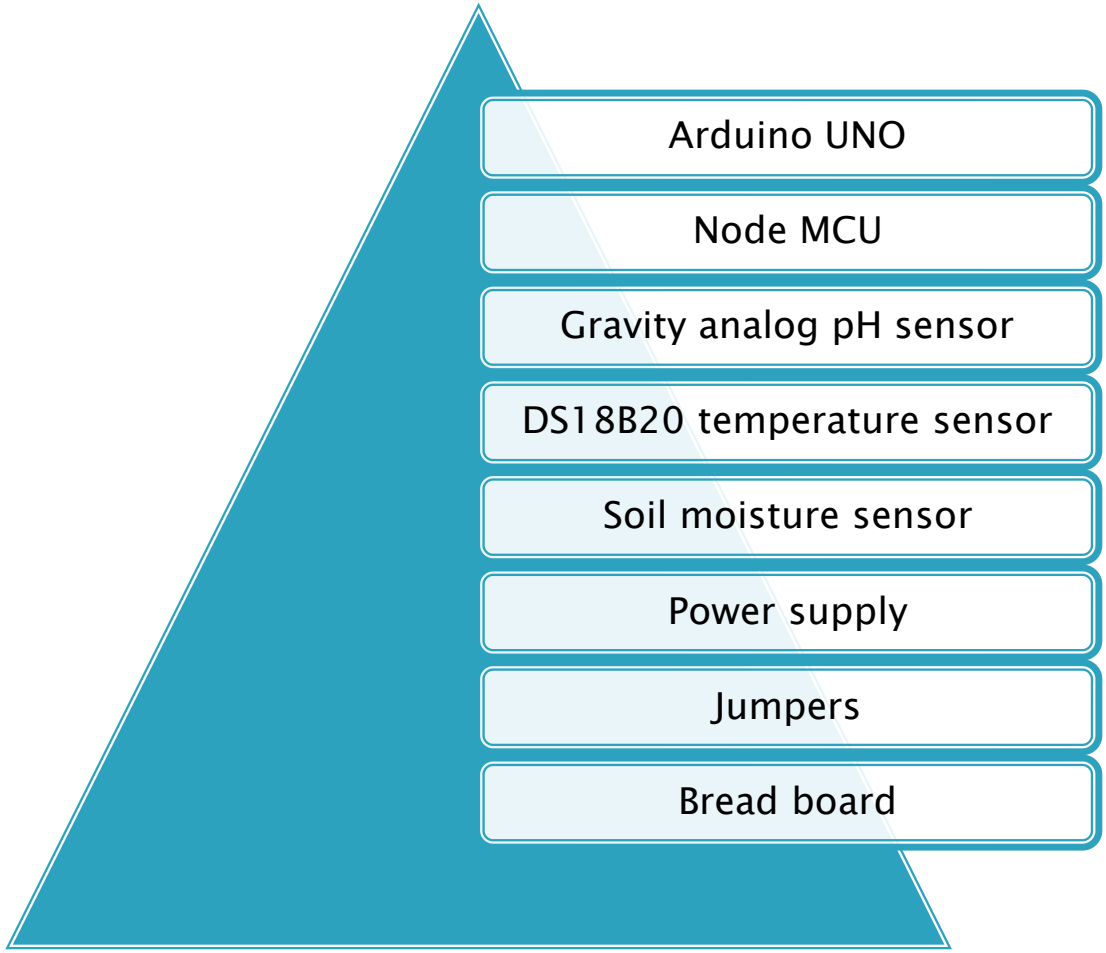
3.REAL TIME TRANSIT INFORMATION PLATFORM :

- DS18B20 is a single wire temperature sensor, as this can be interfaced with microcontroller or Arduino using single data wire
- This is available in a waterproof and Non-waterproof format.

4.INTEGRATION APPROACH

- An HTML page for this water monitoring system using IoT is created which has HTML table to show pH value, temperature and soil moisture
- Check for valid JSON data reception , from the transmitter side data assigned to individual variables and appended in the HTML webpage for real time display

5.BLOCK DIAGRAM




Thank
You!