



SMART ECO-FIELD FARM

Group-1 (2nd year, third semester, Section-A)

Introduction

**Non-stop developing
Technology & animal
agriculture**

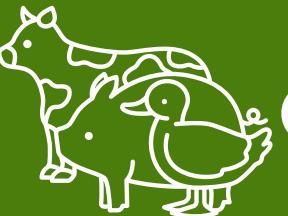
**Different approach
to ecological
harmony**

**Innovation &
Collaboration**

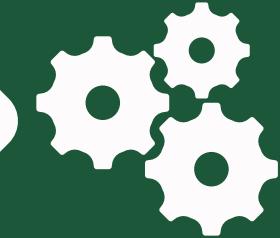
Purpose



To reduce money and labor cost



To prioritize the welfare of animals



To introduce advanced technology to farming industry



To contribute sustainability and reduce environmental impact

Members & Positions

Chaw Nu Htun

Auto Food Feeder
Monitoring
Leader

Thiri Myat Thu

Motion Detector
Hand Washer

Thu Thu Win

Auto Water Feeder
Stock Seeker

May Khant Minn

Motion Detector
Hand Washer
Monitoring

Members & Positions

Lei May Mon Paing

Motion Detector
Hand Washer

Moe Thet Pai

Smoke Detector
Stock Seeker

May Myat Thu

Smoke Detector
Stock Seeker

Zun Myat Noe

Auto Water Feeder
Stock Seeker

Members & Positions

Thu Mon Han

Auto Food Feeder

Pyae Linn

Smoke Detector

Chaw Su Han

Auto Food Feeder

Hnin Wai Hlaing

Auto Water Feeder

Ei Hlyan Myint

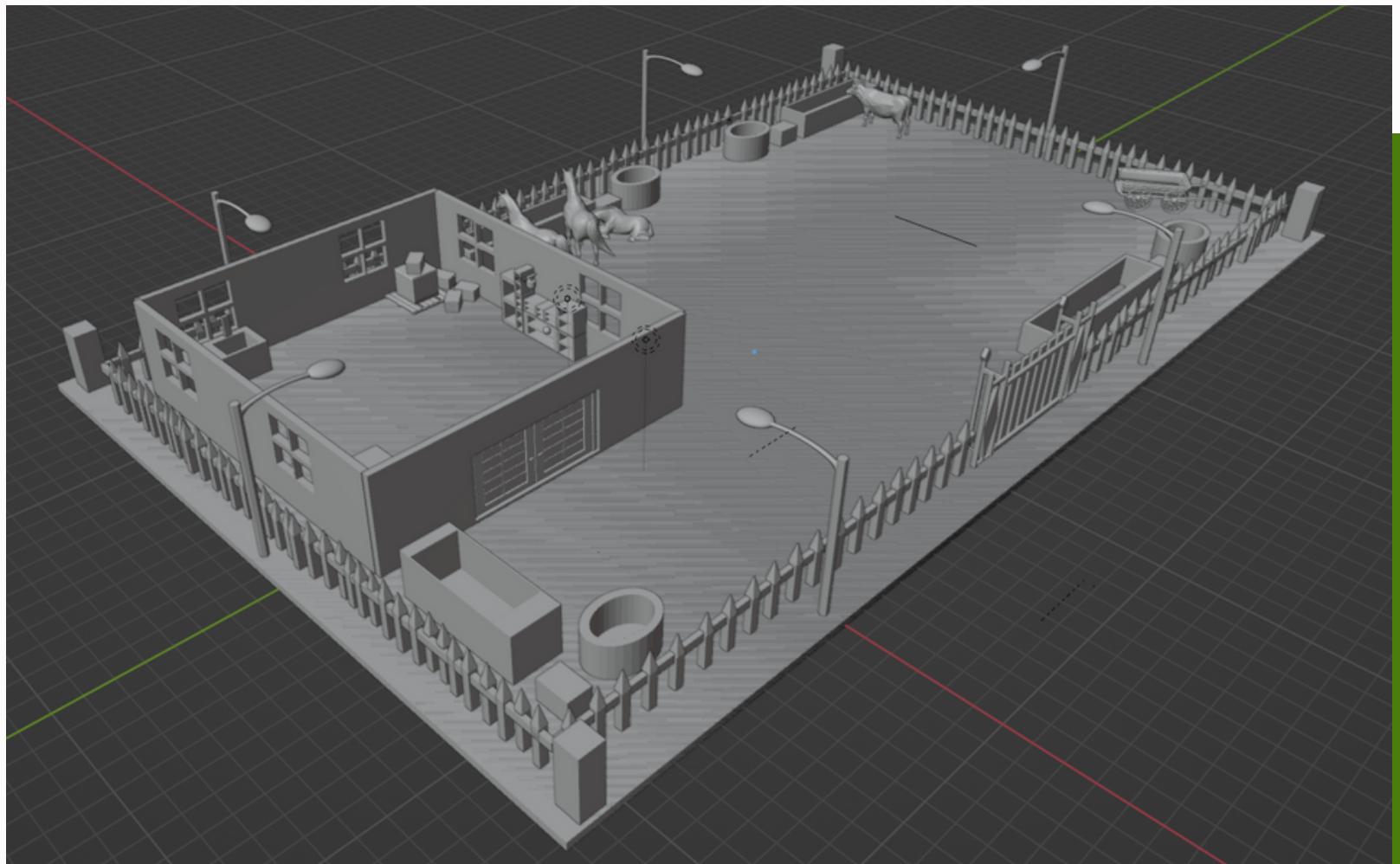
Smoke Detector

Hay Man Kyaw Min

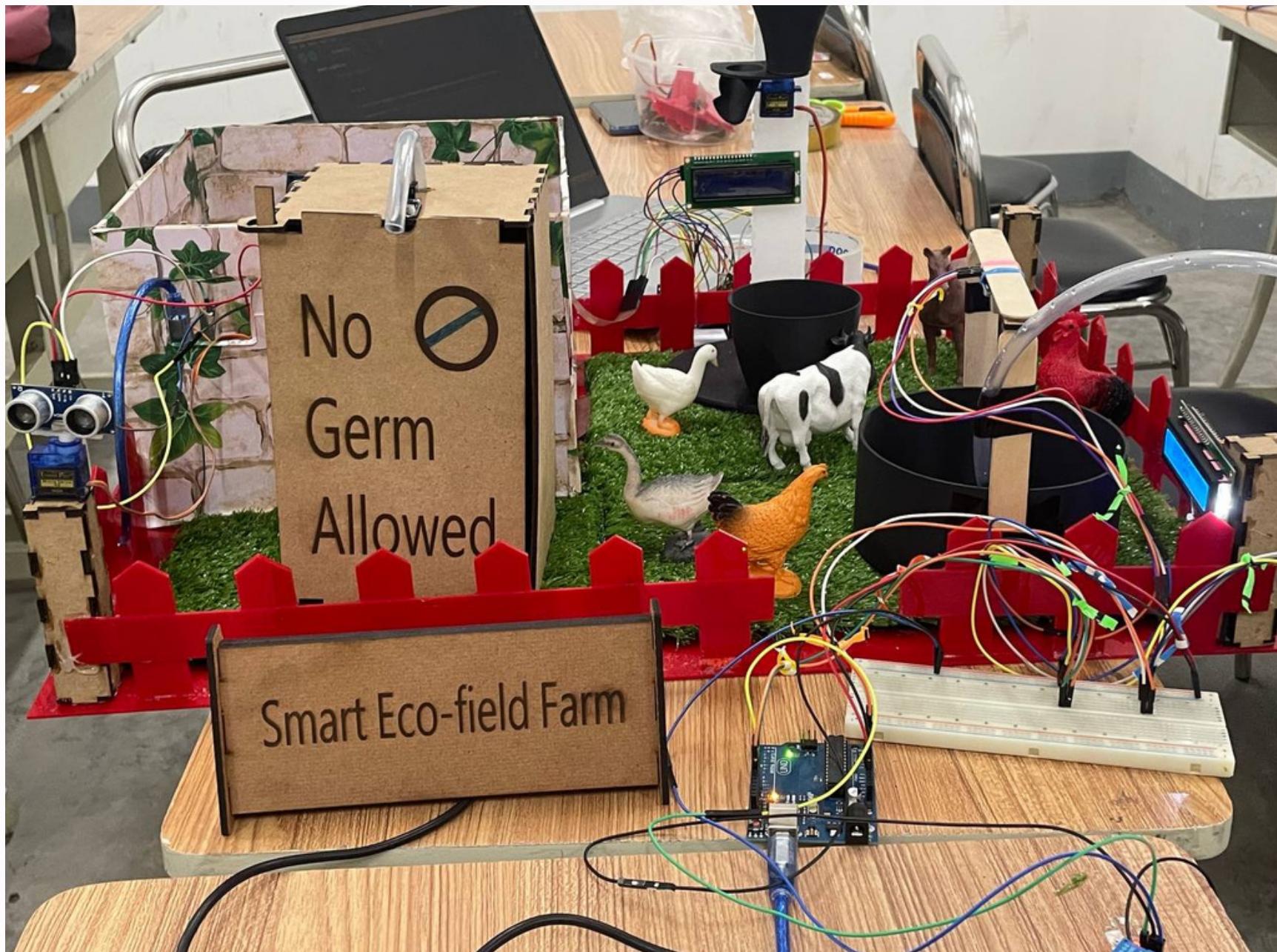
Smoke Detector

Features

- 1 **Motion Detector**
- 2 **Auto Food Feeder**
- 3 **Auto Water Feeder**
- 4 **Hand Washer**
- 5 **Smoke Detector**
- 6 **Monitoring**



Prototype



Schedule



05/7- Discuss for Idea



5/8- Setting Up & Coding



07/7- Decide for Project



12/8- Test & Repair



15/7- List&Collect Requirements



20/8- Build & Decorate Prototype



31/7- Allocate Parts

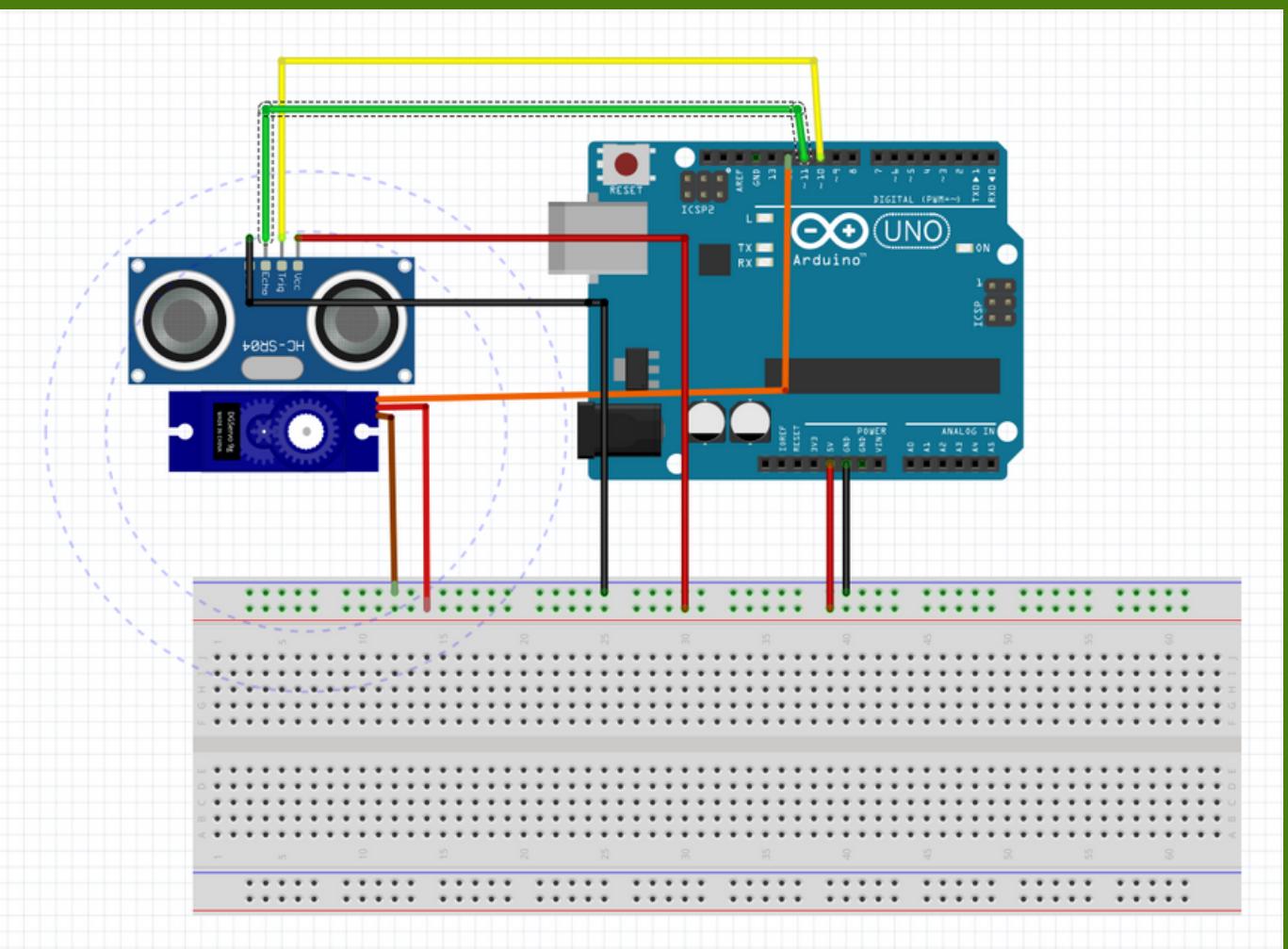


30/8- Present Project

A hand-drawn style oval shape drawn over the bottom right section of the slide.

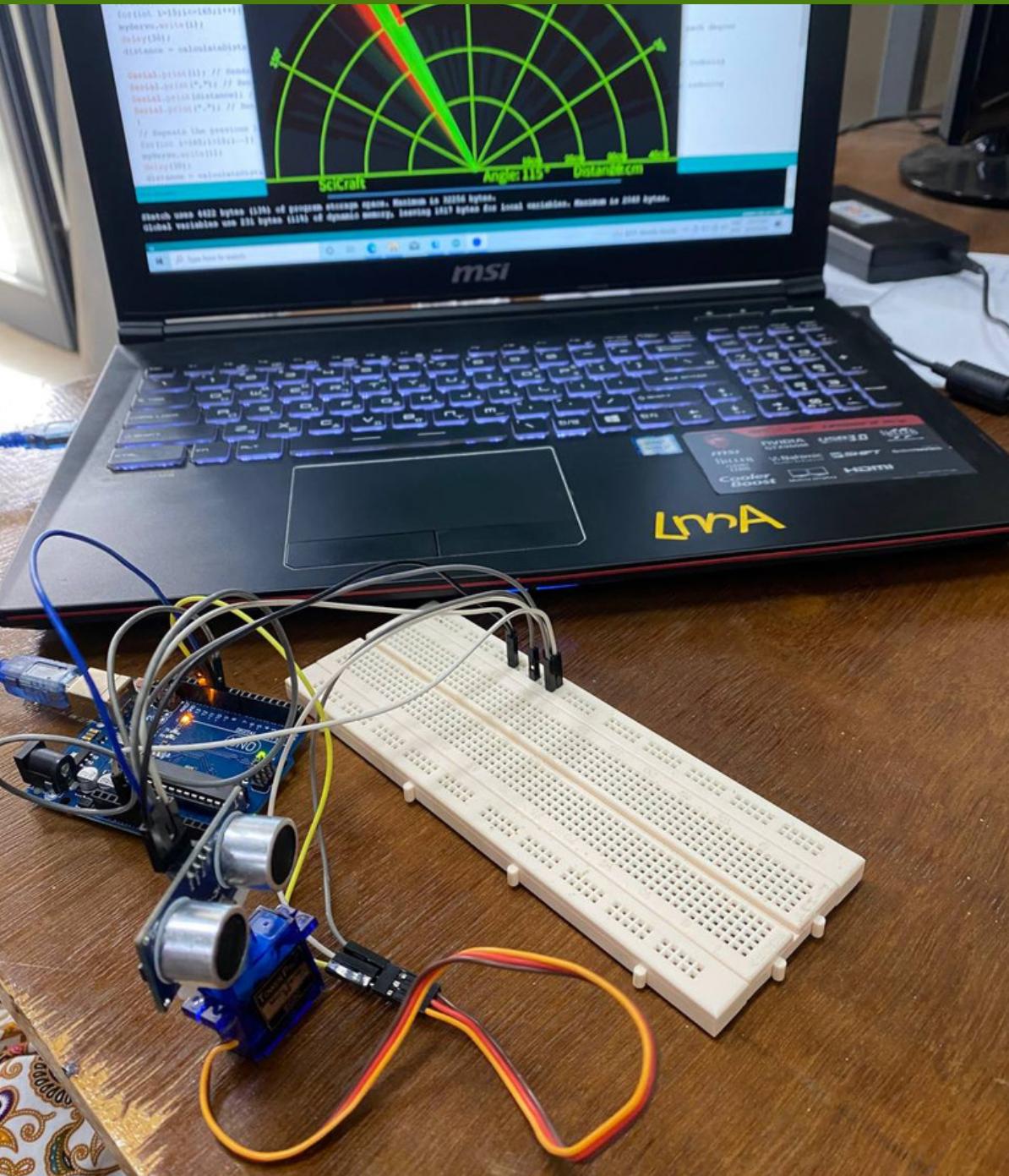
Motion Detector

Radar system that can detect
objects and display their
distance and angle on the
serial monitor



REQUIREMENTS

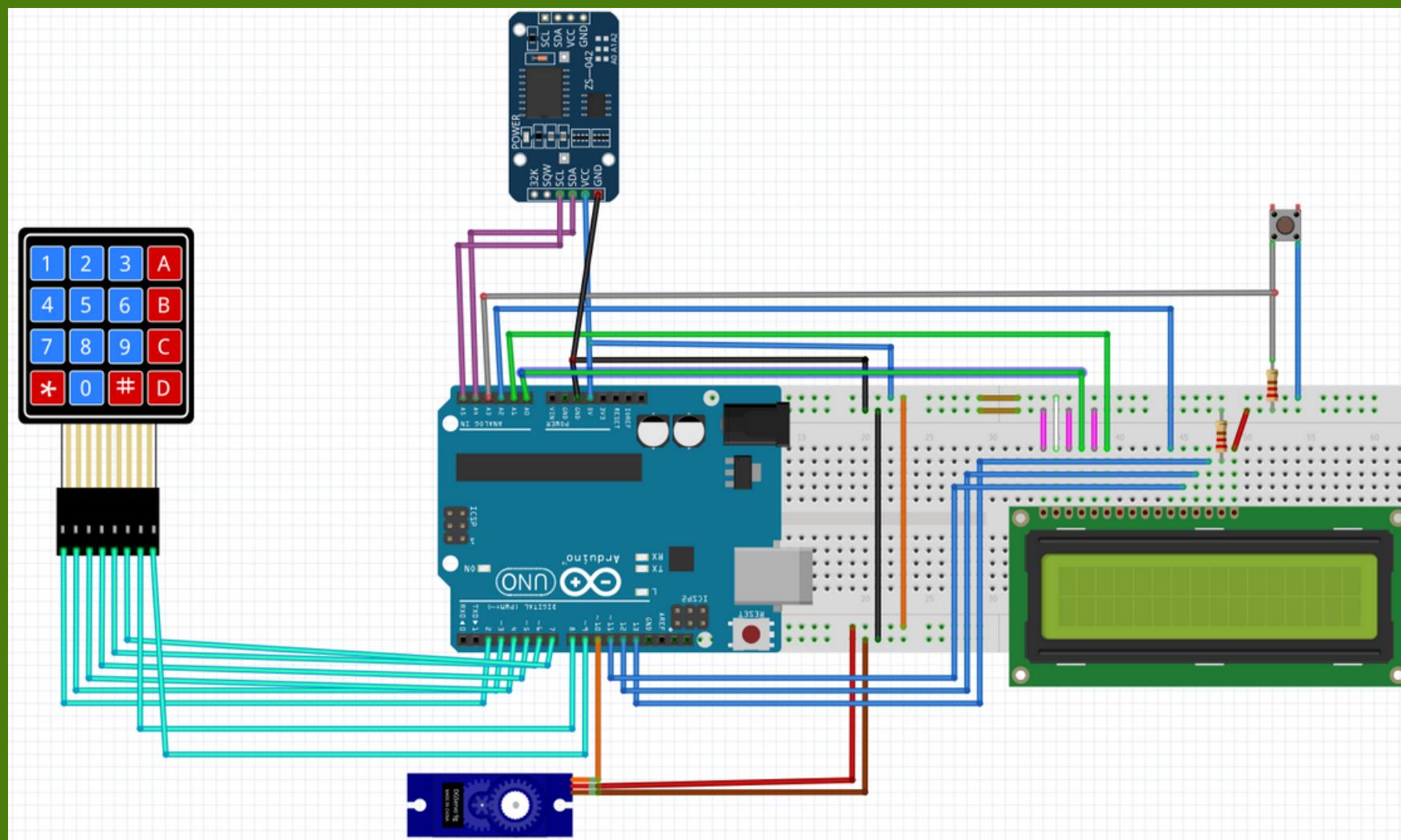
- Servo Motor
- Ultrasonic Sensor



- Resistors
- Radar Concerned Application (Processing)

Auto Food Feeder

A system to drop the food
in the container in the bowl
using a timer



REQUIREMENTS

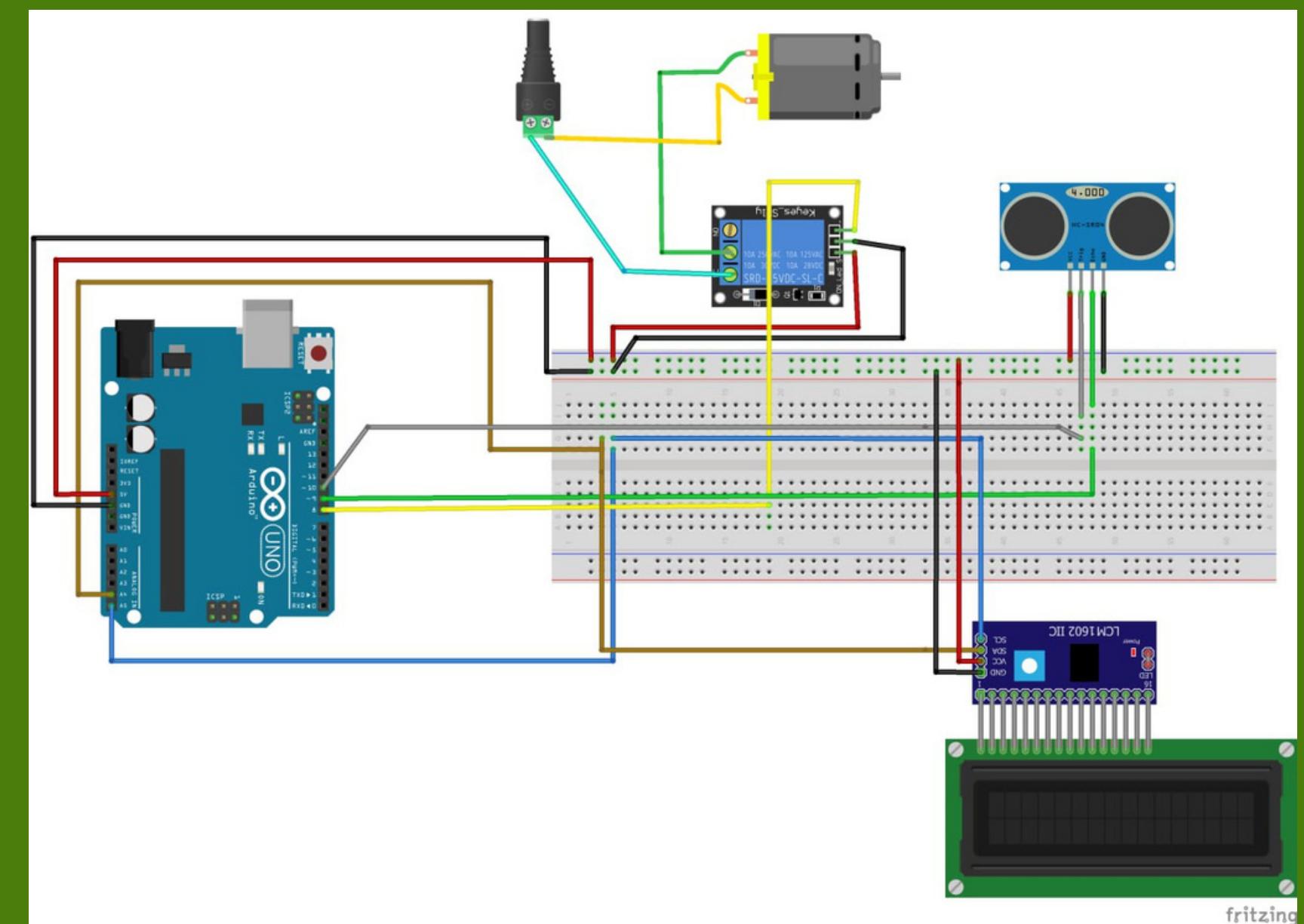
- Matrix Keypad
- LCD

- Servo Motor
- RTC Module



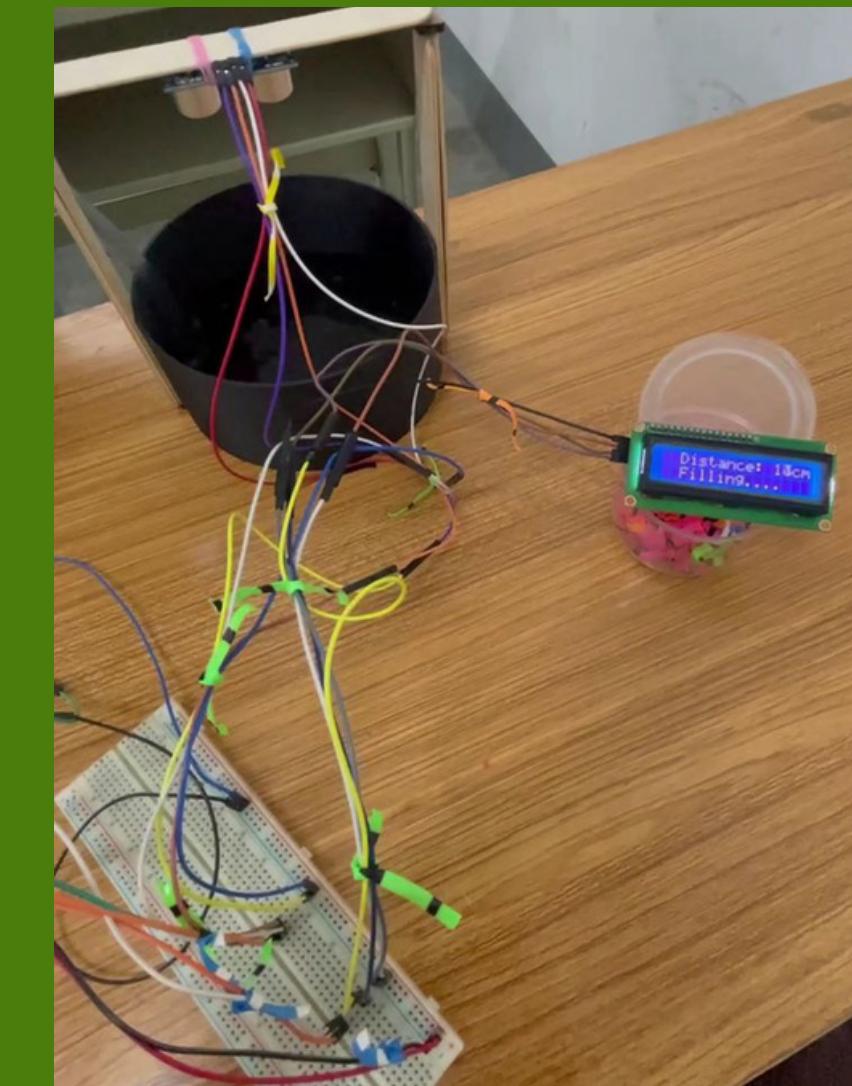
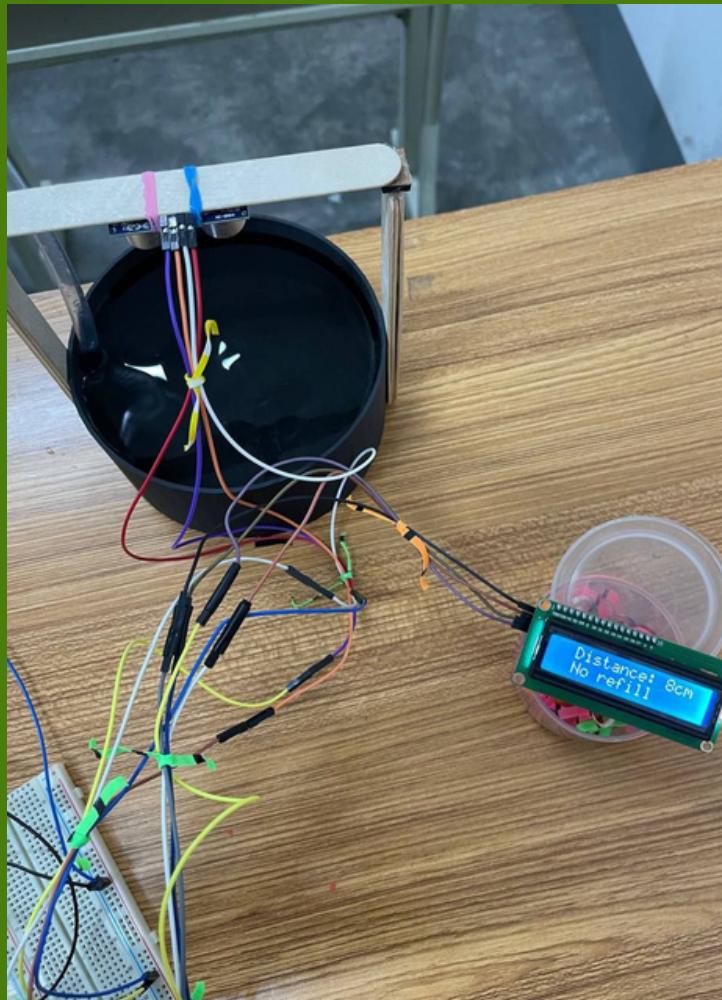
Auto Water Feeder

A system to fill the water tank for the animals by detecting the water level with sensor



REQUIREMENTS

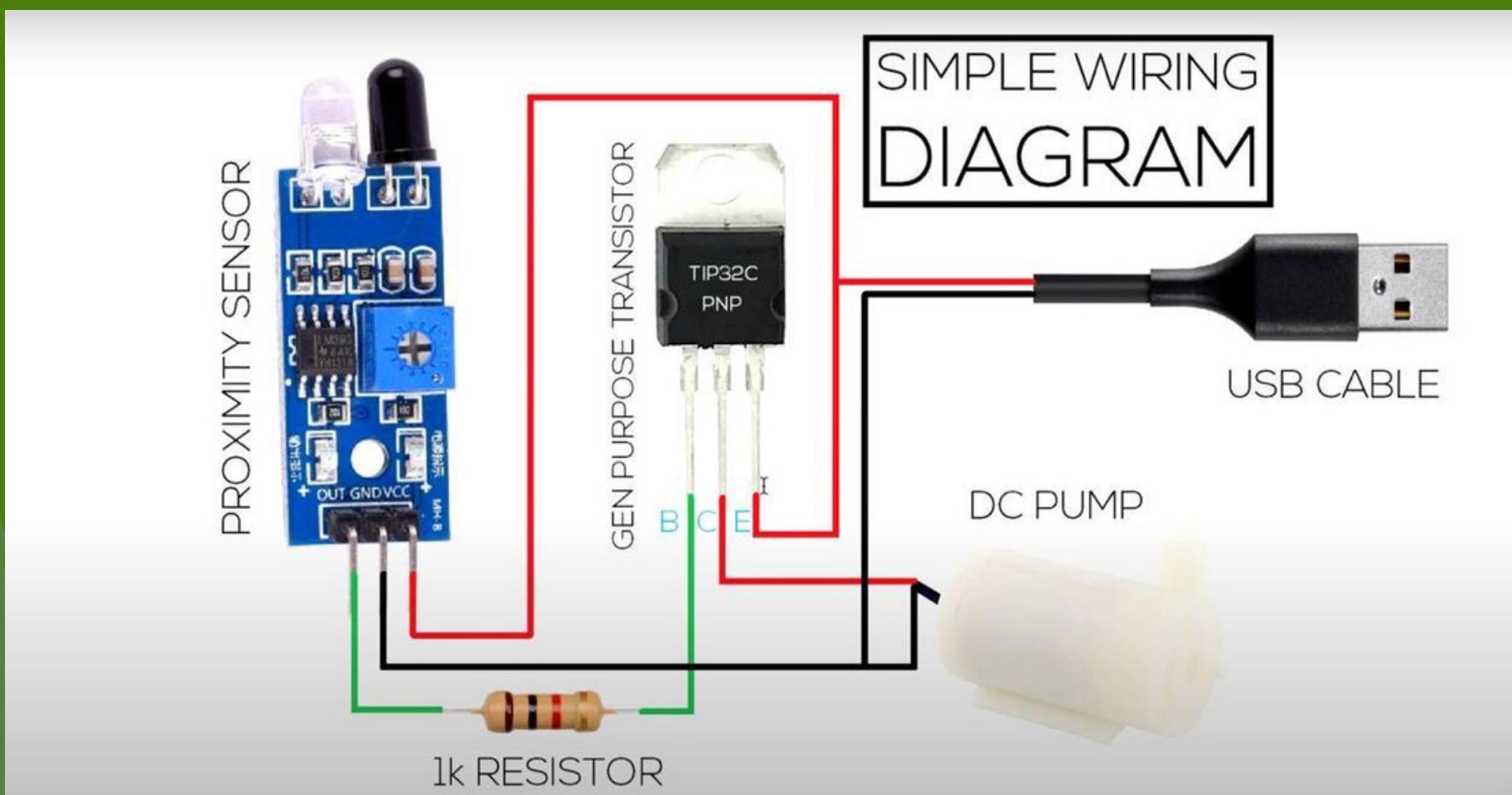
- Ultrasonic sensor
- LCD display
- 5v single channel relay module



- 12v DC Water Pump
- Water Pipe
- DC Power Adapter Plate PCB Board Module

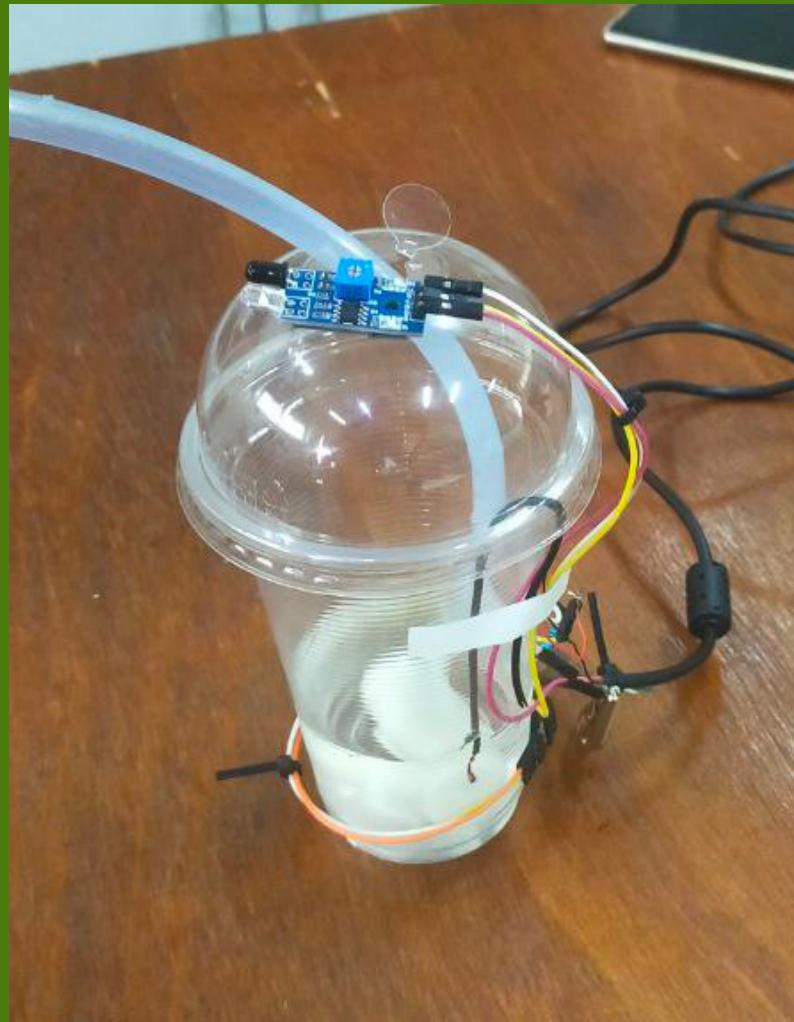
Hand Washer

Automatic hand washing
machine using infrared
sensor, powered by a
battery



REQUIREMENTS

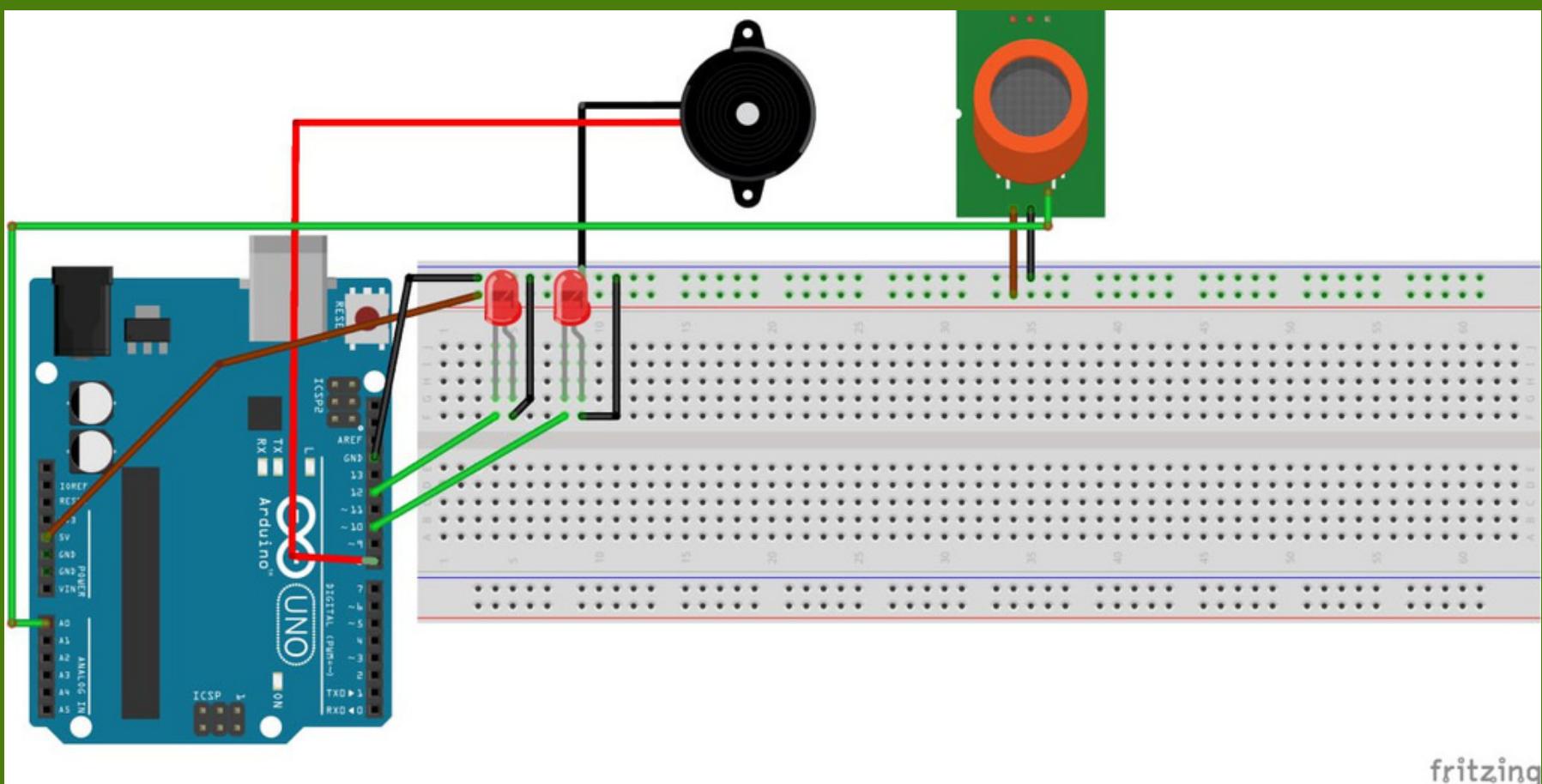
- Infrared sensor
- PNP Transistor



- DC Pump
- Resistor

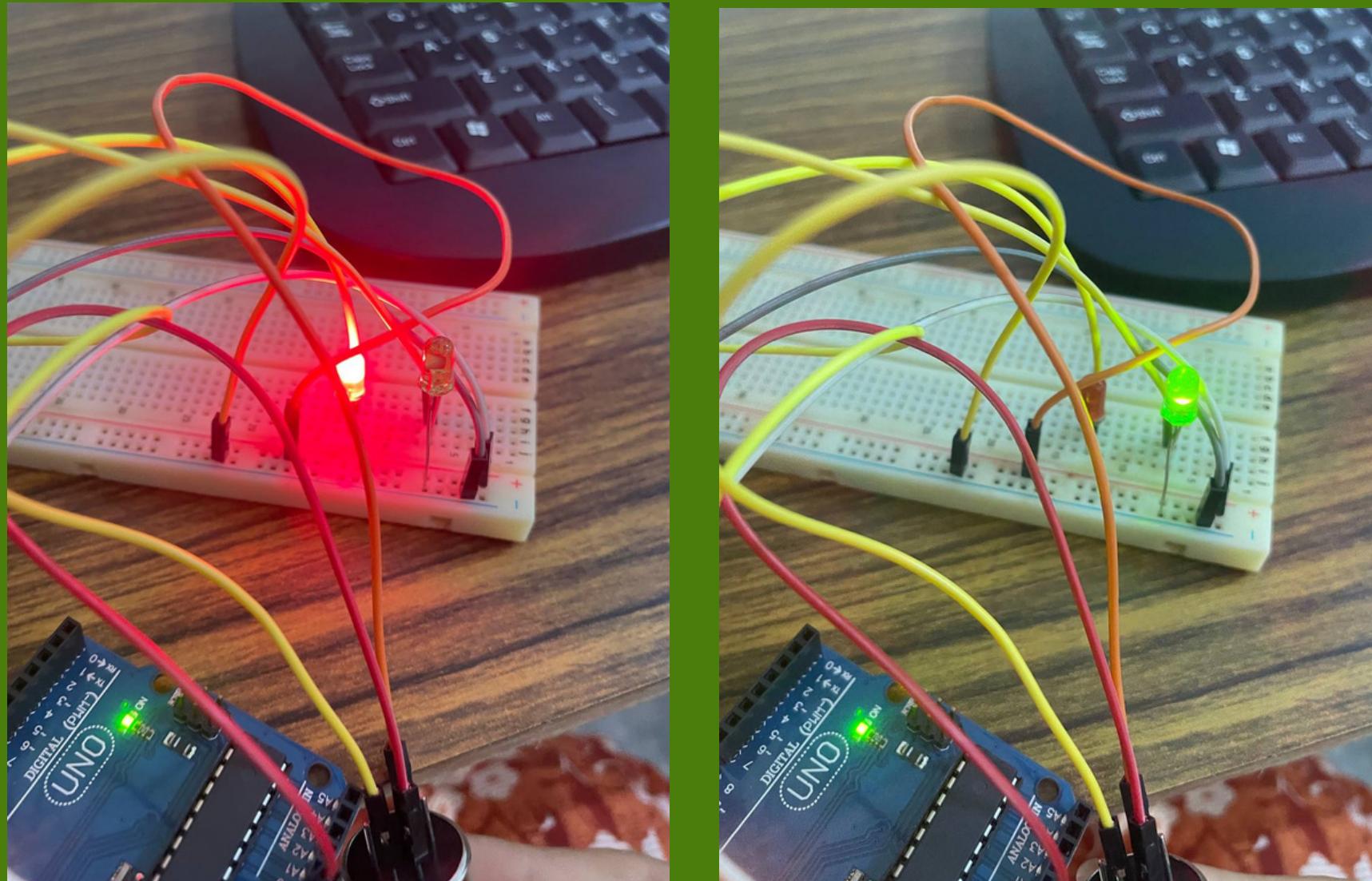
Smoke Detector

An alarm system that will alert the potential of fire by using a smoke sensor or thermistor



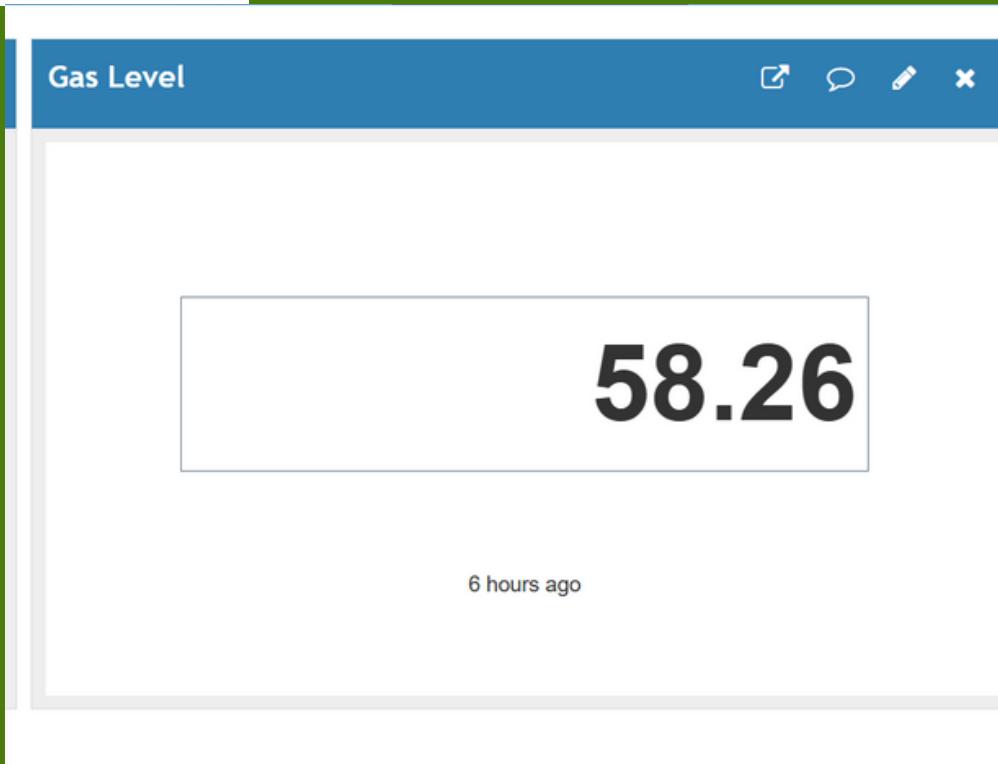
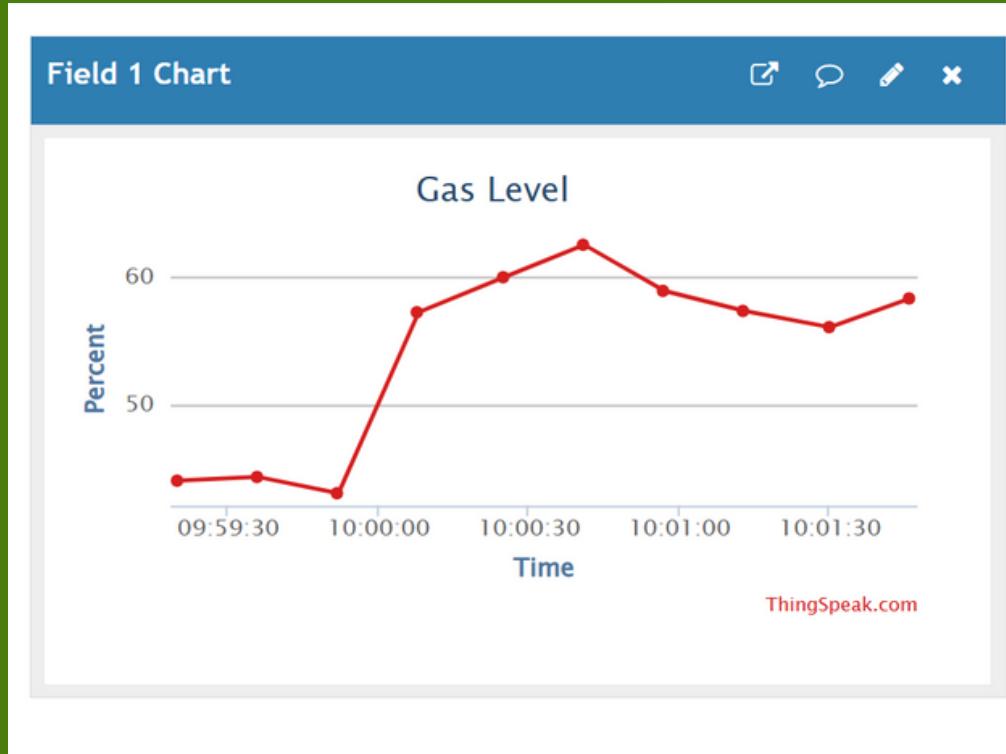
REQUIREMENTS

- Buzzer
- MQ135 Smoke Sensor



- Green LED
- Red LED

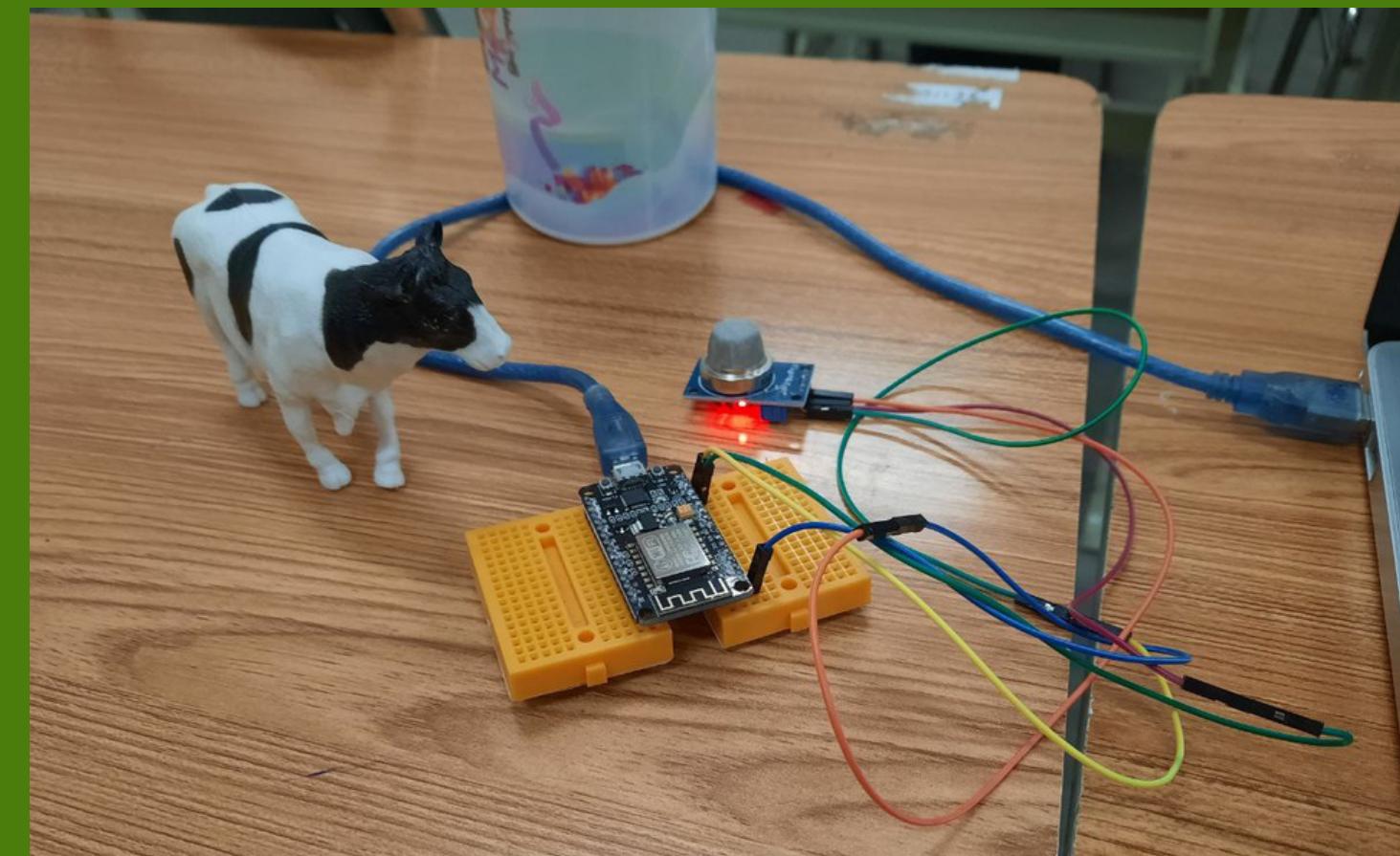
Monitoring



A system to monitor the gas level received from smoke detector

REQUIREMENTS

- Esp8266 Node MCU
- MQ-2 Smoke Sensor



THANK YOU FOR
ATTENTION.

