

TOUCHLESS TRASH CAN

TEAM 12

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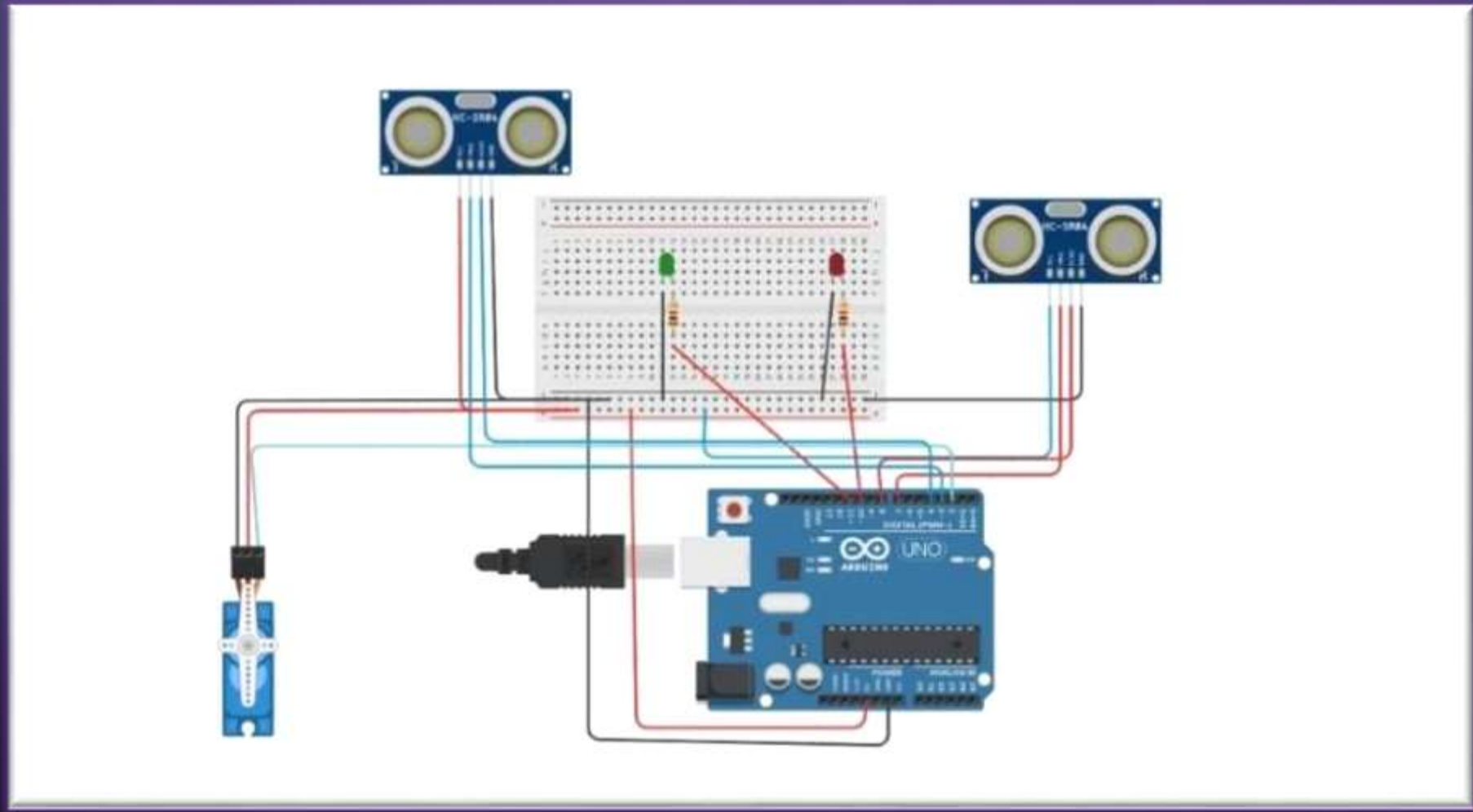


WORK DONE IN WEEK 4

- ☐ We have successfully completed the physical model of the project
- ☐ We have run the code with the physical model through USB plug in and assured it is working
- ☐ We completed writing the report, making demonstration video and final presentation



SCHEMATIC DIAGRAM OF THE PROJECT



PHYSICAL MODEL OF THE PROJECT



LABELLING OF PARTS



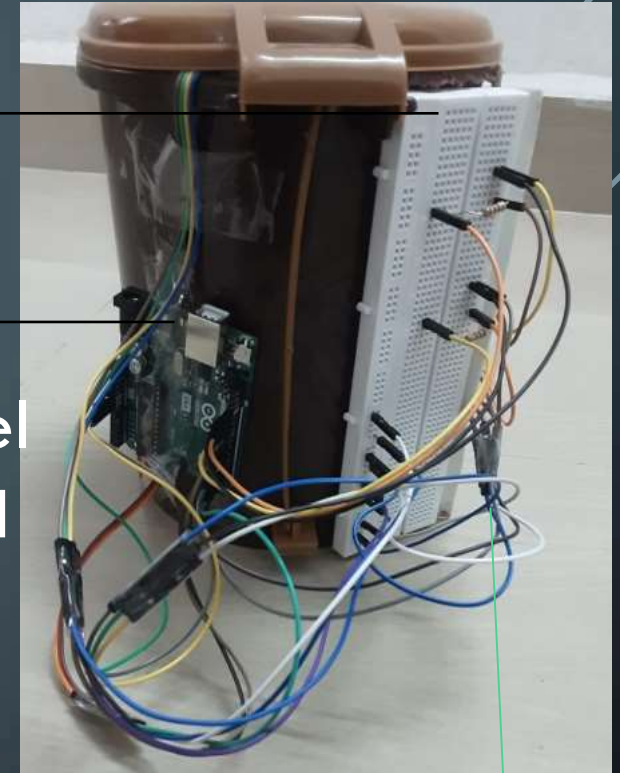
Ultrasonic distance sensor 1
(which is used to detect the
Motion in front of it)

Mini servo motor
(which is used to pull down
The coin of the can)

Breadboard

Arduino Uno

Which is the main part of the model
in Which code is inserted
through usb plug in



LEDs

Used to indicate
Whether the can is
Empty or not

Connecting wires





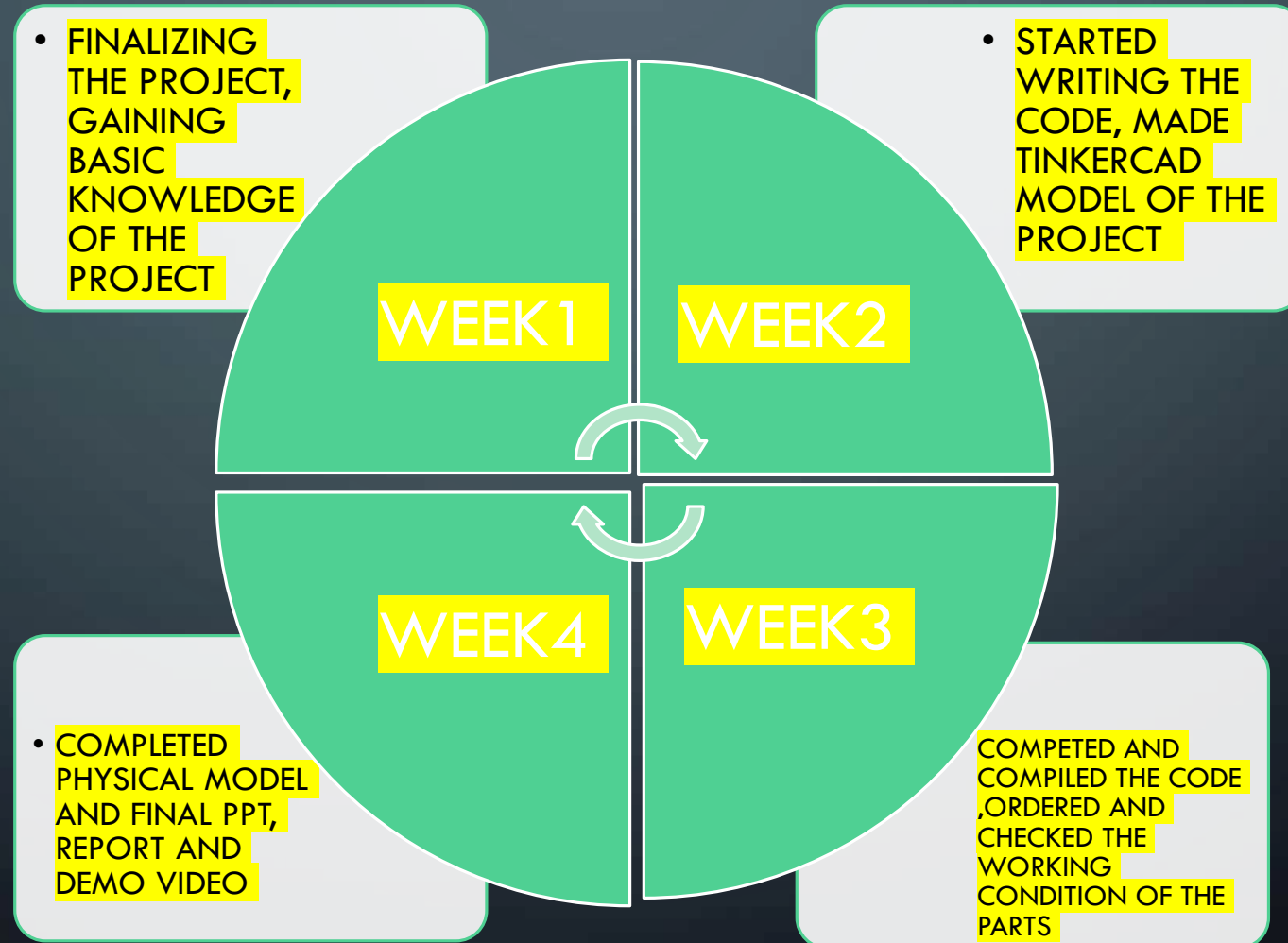
Resistors

Ultrasonic distance sensor 2

Which is used to detect the level of
garbage in the can



WEEKLY PROGRESS OF THE PROJECT





WORK DISTRIBUTION OF EACH MEMBER

- RITESAH : ASSEMBLED THE HARDWARE PARTS AND MADE THE PHYSICAL MODEL AND MADE IT WORK WELL
- HEMANTH: WROTE THE CODE , MODIFIED IT ACCORDING TO THE CHANGES AND CORRECTED ALL THE ERRORS
- LIKITH : MADE WEEKLY PRESENTATIONS,WROTE THE REPORT AND EDITED THE FINAL VIDEO AND HELPED WITH RESEARCH IN THE PROJECT
- NISRAYANI: MADE VIRTUAL MODEL USING TINKERCAD , RUN THE SIMULATION AND CIRCUIT DIAGRAMS

WHAT WE ACHIEVED AND WHAT COULD BE DONE FURTHER

- WE ARE ABLE TO MAKE THE PHYSICAL MODEL OF A TRASH CAN WHICH WORKS AUTOMATICALLY USING ARDUINO UNO CIRCUITS AND IN WHICH THE GARBAGE LEVEL CAN ALSO BE INDICATED USING LEDs
- WE INITIALLY HAD SOME PROBLEM WITH ONE OF THE SENSOR AND SERVO DID NOT PROPERLY BUT RESOLVED IT
- IMPROVEMENTS COULD BE DONE FOR ULTRASONIC SENSOR WHILE DOING IT WE ARE HAVING TROUBLE WITH THE OTHER CONNECTIONS SO WE STICK TO THE INITIAL IDEAS OF THIS PROJECT