Presentation On
Iot based smart gate

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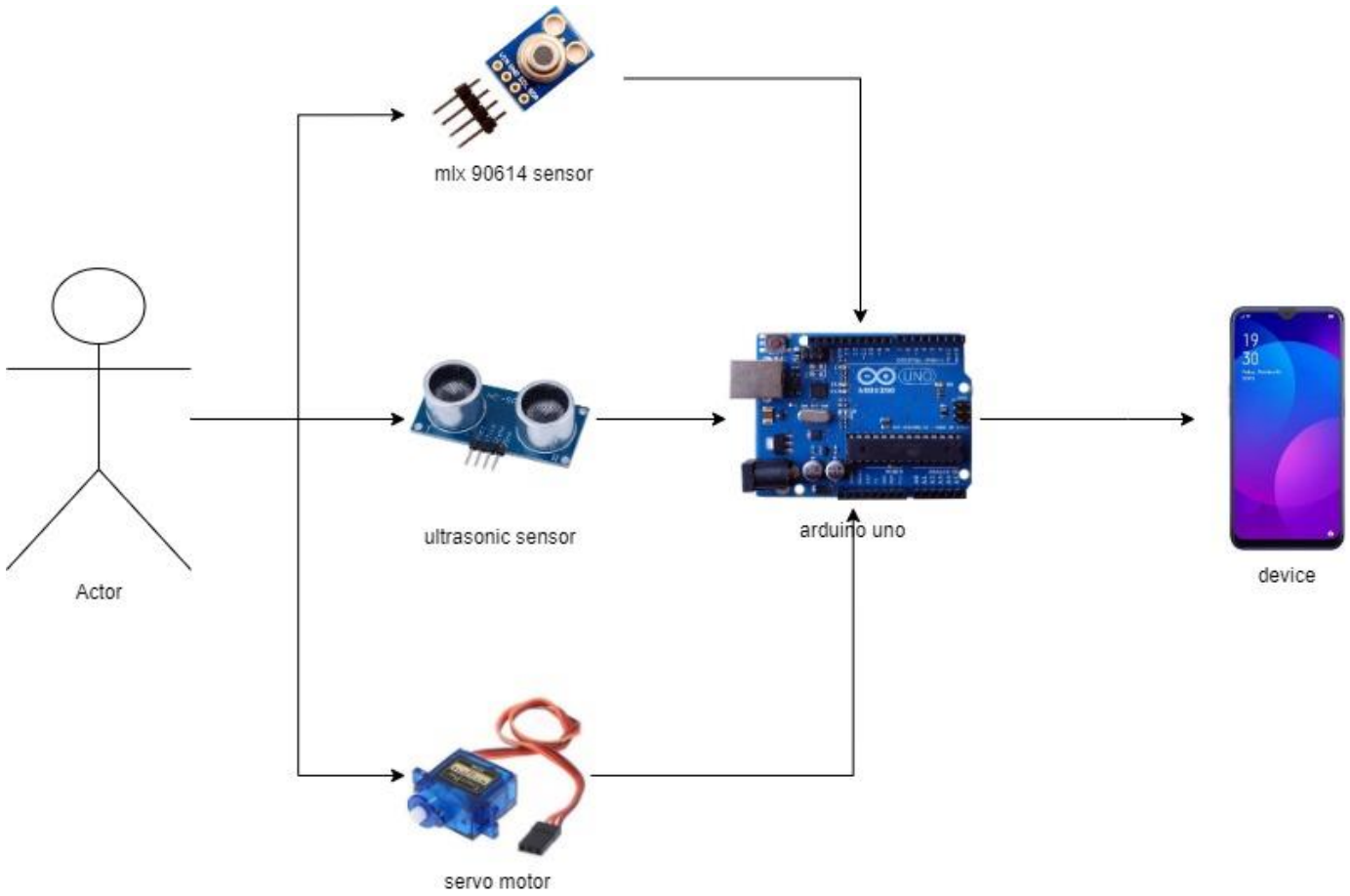
Introduction

- At the time of covid-19 as we all know thag how this affect this our life styles. Where ever we go every one wants to check our temperature.
- This gate can also work as security gate At the place of Gate keepers.
- In this we use ultrasonic sensor, mlx90614, servo motor and arduino Uno.

Layout


mlx 90614 sensor
Actor
ultrasonic sensor
arduino uno
device
servo motor

Components

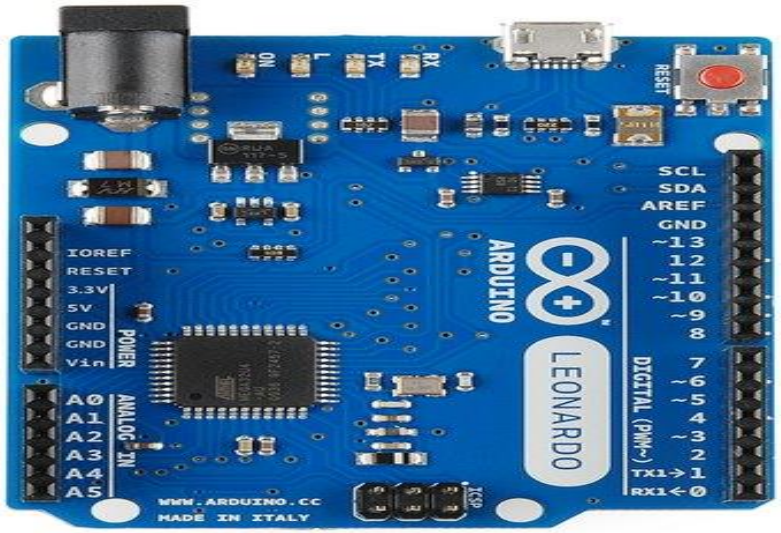
- Ultrasonic sensor

  Ultrasonic sensor measures the distance to the target by measuring the time between the emission and reception.

Components

- Arduino uno

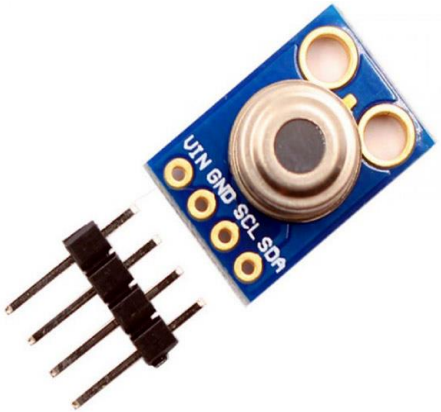
  The arduino uno is an open source micro controller Board based on the microchip ATmega328p micro controller.



Components

- Mlx90614 sensor

  Mlx90614 is a contact less Infrared sensor. The mlx90614 is infrared thermometer for non contact temperature measurements capable of measuring temperature.



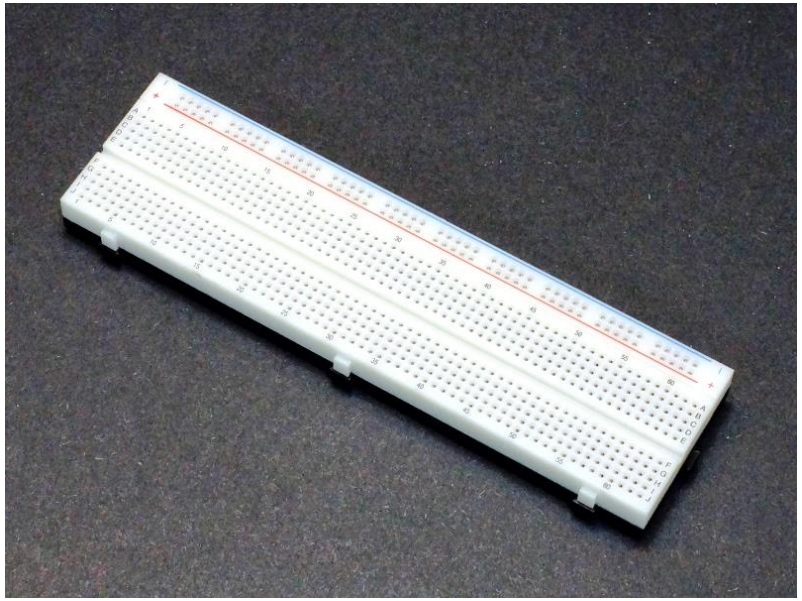
Components

- Servo motor

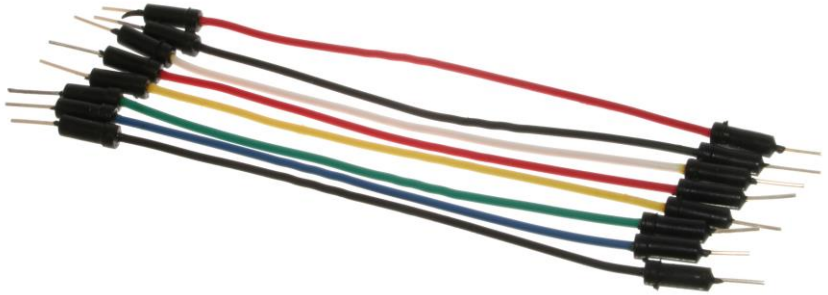
  A servo motor is a rotar ctuator or linear actuator that allows for precise control of angular or linear position, velocity and acceleration .

Components

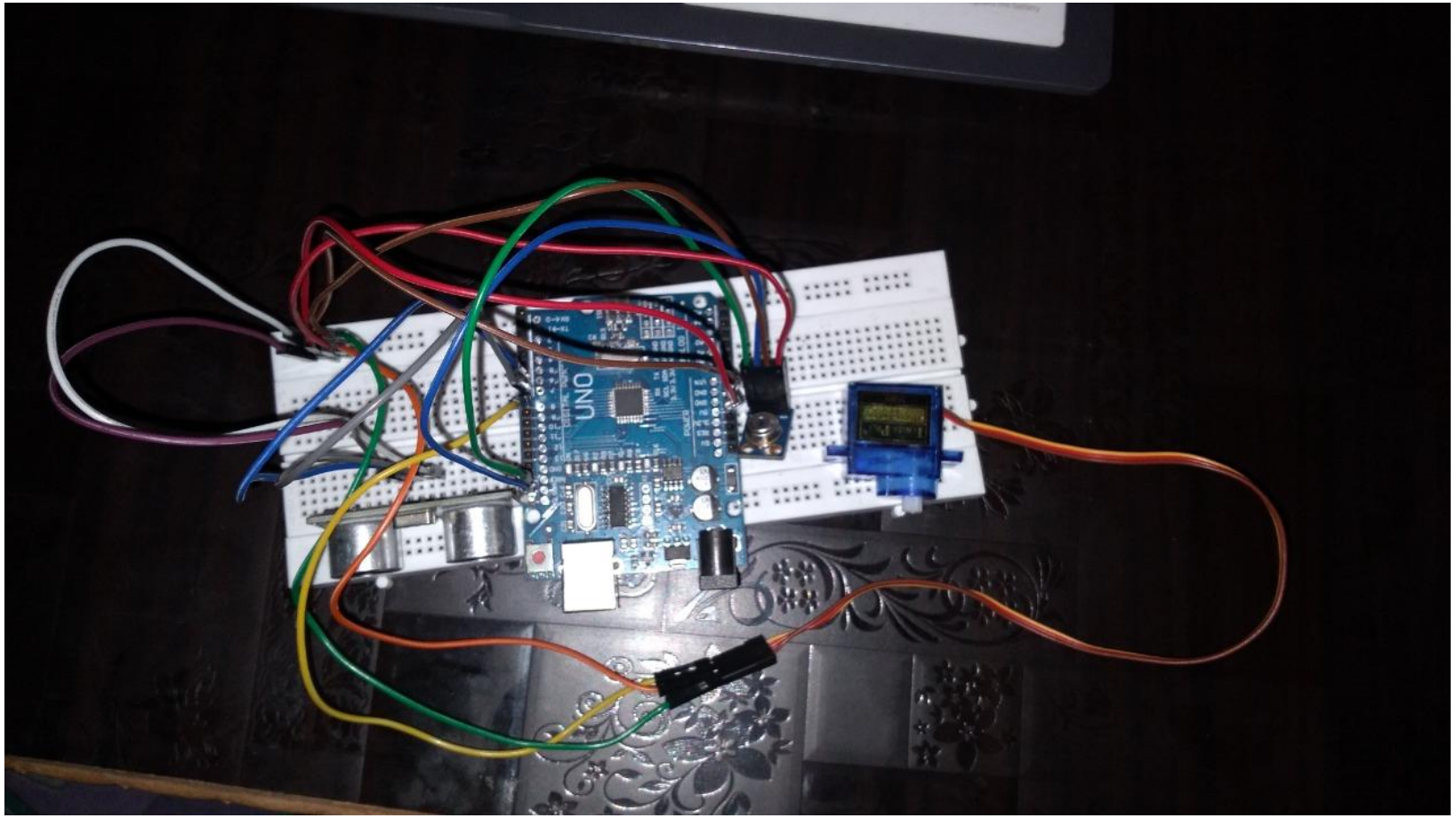
- Breadboard



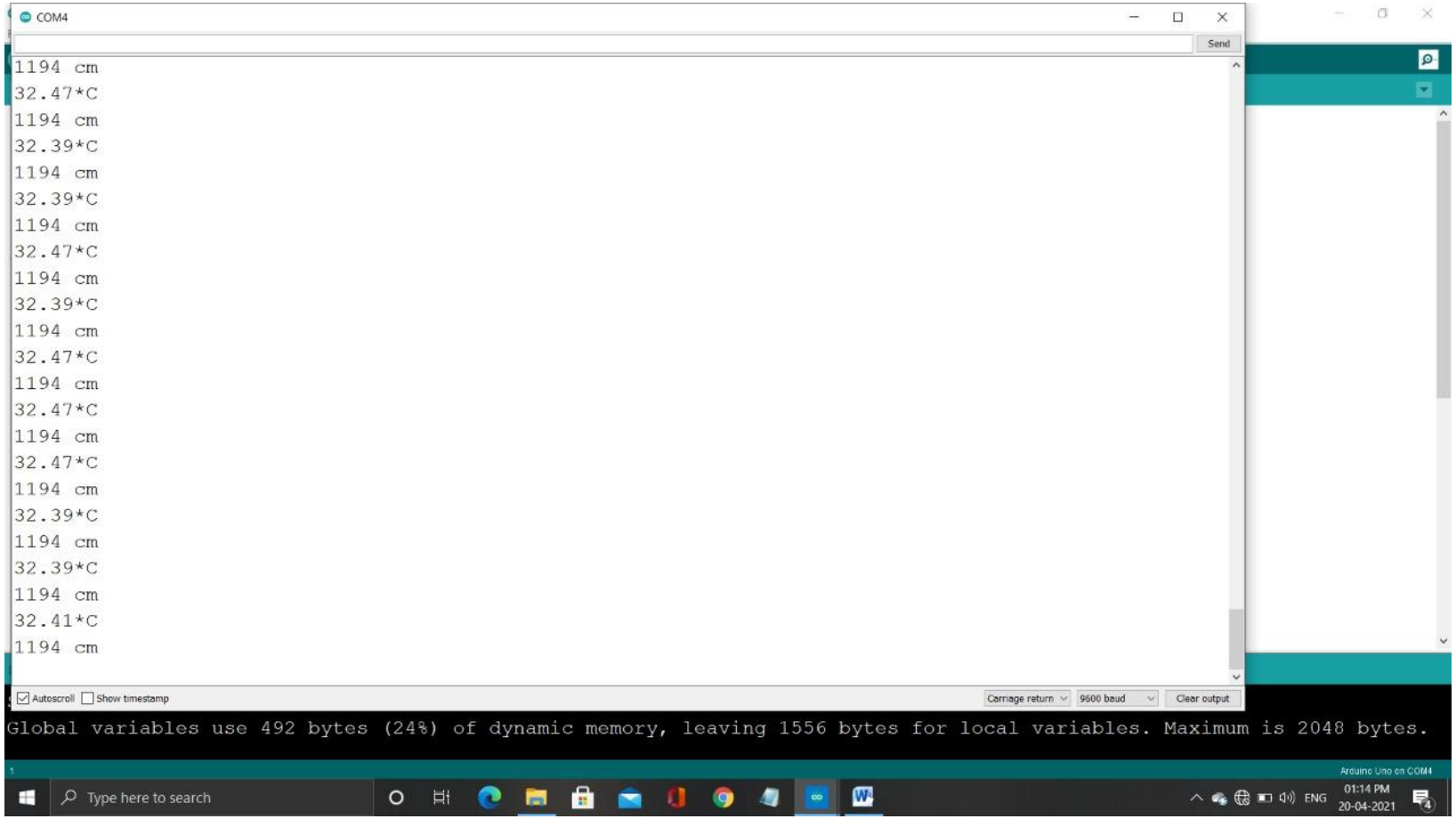
jumper wires



Working model



Result


COM4
Send
1194 cm
32.47*C
1194 cm
32.39*C
1194 cm
32.39*C
1194 cm
32.47*C
1194 cm
32.39*C
1194 cm
32.47*C
1194 cm
32.47*C
1194 cm
32.47*C
1194 cm
32.47*C
1194 cm
32.39*C
1194 cm
32.39*C
1194 cm
32.41*C
1194 cm
Autoscroll
Show timestamp
Carriage return
9600 baud
Clear output
Global variables use 492 bytes (24%) of dynamic memory, leaving 1556 bytes for local variables. Maximum is 2048 bytes.
Arduino Uno on COM4
Type here to search
ENG
01:14 PM
20-04-2021

Future scope

- We can use this gate in smart home automation by using some more sensors
- We can send health info which is generated by this gate to our doctor.
- This gate can share the info of about home to the owner of the house.

Conclusion

At the end of the project we get our functional gate.

Thank you