

# **SOCIAL DISTANCING INDICATOR AND ALARMING SYSTEM**

Using internet of things (IOT) we can make a social distancing indicator and alert system.

**GROUP 5 -**

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**IOT PROJECT FOR END SEM**



# KEY FEATURES AND BENIFITS

- AS WE ALL KNOW IN THIS COVID PANDEMIC ,TO TACKLE THE SITUATION , SOCIAL DISTANCING PLAY A MAJOR ROLE TO KEEP US SAFE .
- SOMETIME WE FORGET TO MAINTAIN A MIN DISTANCE WITH OTHERS IN SOCIAL PLACES.
- AND IOT HELP US TO MAINTAIN THE DISTANCE WHILE WE ARE MOVING SOMEWHERE .
- THIS IOT PROJECTS HELPS US TO KEEP SAFE IN THIS PANDEMIC

# REQUIREMENTS

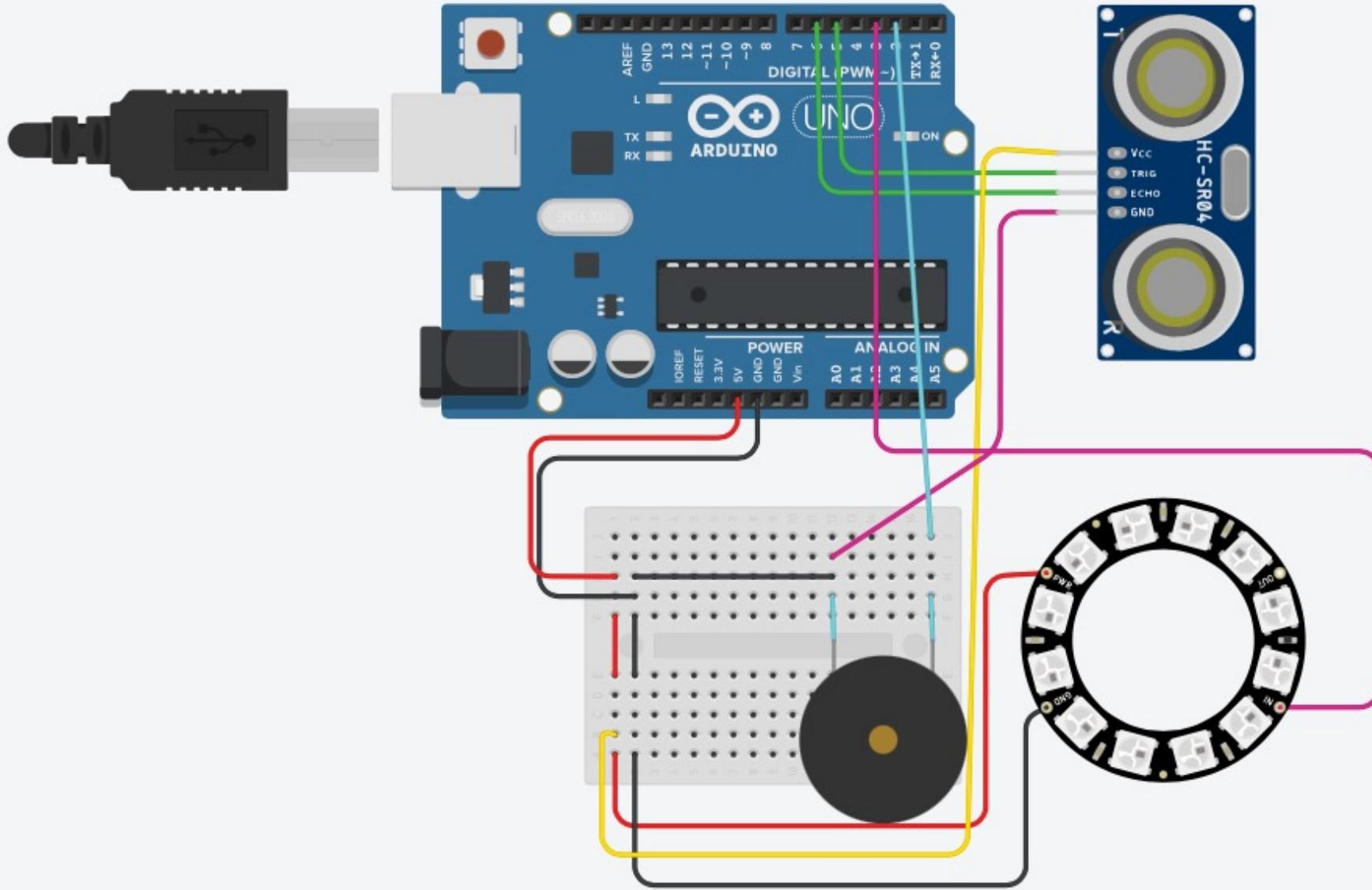
## HARDWARE /SOFTWARE

- 1. ARDUINO UNO**
- 2. NEOPIXEL RING 12**
- 3. ULTRASONIC SENSOR**
- 4. BREADBOARD**
- 5. WIRE**
- 6. PIEZO BUZZER**
- 7. ARDUINO IDE**



# HOW IT WORKS

1. IN THIS PROJECT WE USE ULTRA SONIC DISTANCE SENSOR TO DETECT THE DISTANCE.
2. AND WE USE NEOPIXEL RING 12 RGB WHICH INDICATE US THE LEVEL OF RISK
3. WHEN IT SHOW GREEN THEN ITS SAFE
4. WHEN ITS TURN YELLOW ,THEN IT INDICATING US THAT SOMEONE NEAR US
5. WHEN IT TURN RED THEN SOMEONE TO CLOSE TO US AND ITS NOT SAFE AND THEN PIEZO BUZZER STARTS RINGING.
6. THEN WE HAVE TO MAKE SOME DISTANCE WITH THAT PERSON.
7. IN THIS WE CAN SET THE MAXIMUM AND MINIMUM DISTANCE THROUGH CODING.



# **DELIVERABLES**

- THE FINAL PRODUCT KNOWN AS THE “SOCIAL DISTANCING INDICATOR AND ALERT SYSTEM”.
- THIS WILL HELP US TO KEEP SAFE US FROM THE VIRAL COVID AND MAINTAIN A GOOD HYGEINE .
- IN FUTURE IT WILL BE PORTABLE AND EVERYONE HAVE ACCESS TO DEVICE .
- AS WE ALL KNOW SOCIAL DISTANCING IS VERY MUCH IMPORTANT TO KEEP US SAFE AND OUR FAMILY.