



You Choose, We Do It
St. JOSEPH'S COLLEGE OF ENGINEERING
(An Autonomous Institution)

St. Joseph's Group of Institutions

OMR, Chennai - 119.

COUNSELING CODE: 1317



A MINI PROJECT ON

“SOCIAL DISTANCING ID CARD”

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Social Distancing ID Card

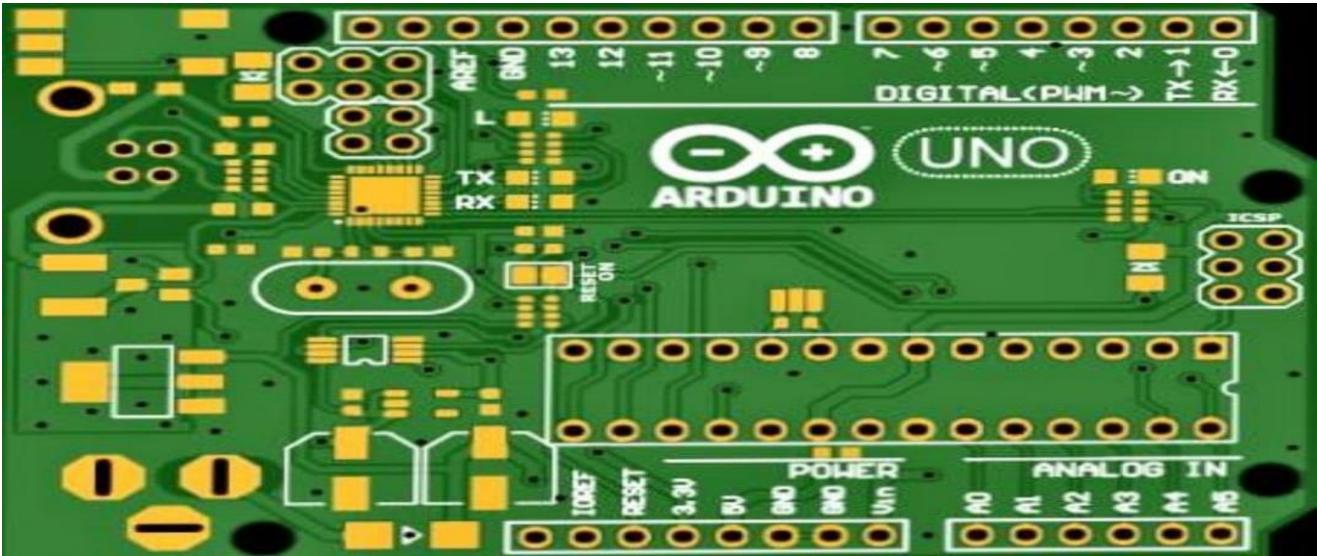
ABSTRACT:

- The importance of social distance concept was raised during the COVID period. But as COVID is not fully eradicated social distancing will still be prevalent in coming time.
- The problem with social distancing is people tend to forget about it every now and then. Remind every person each time is not feasible.
- So here we develop a wearable social distancing ID card that will remind people to maintain social distancing whenever they are too close to someone else. This system will provide an automated way to ensure social distancing.
- While moving in crowded areas you don't want to worry about covid. Always wear this social distance reminder ID. It will be making you completely ready. Components Used

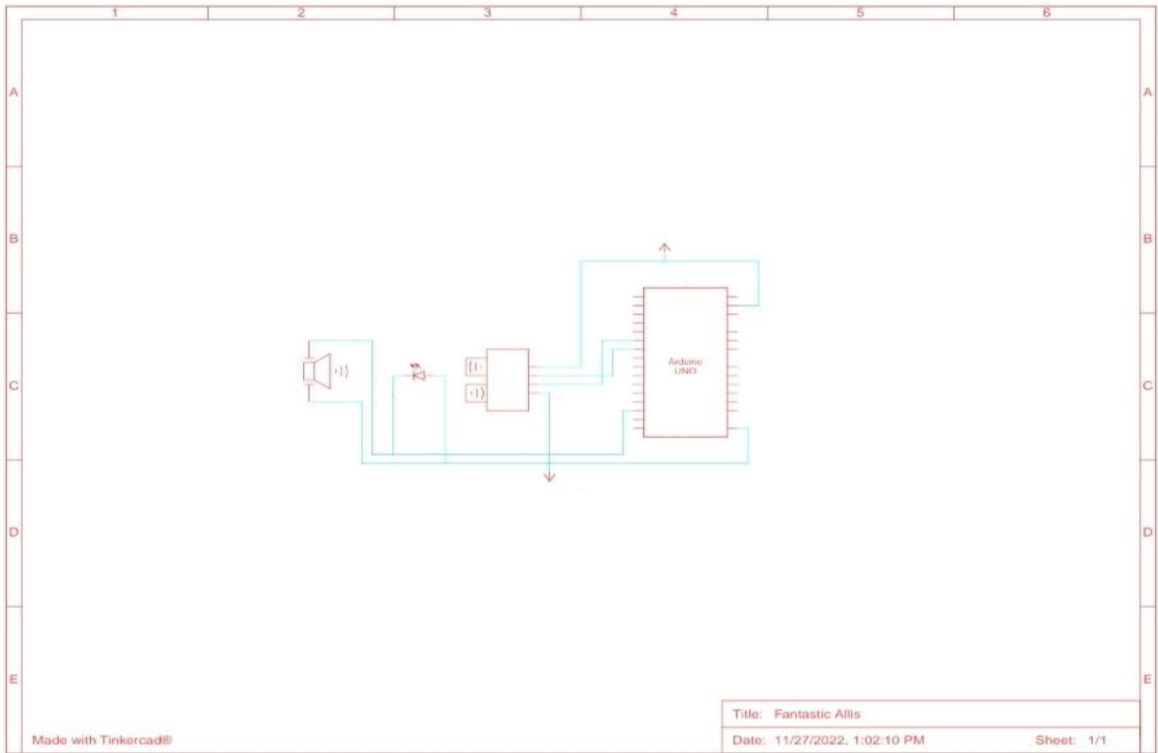
COMPONENTS:

- Arduino UNO X 1
- Buzzer 5V X 3
- LED 5mm X 4
- Ultrasonic module HC-SR04 X2

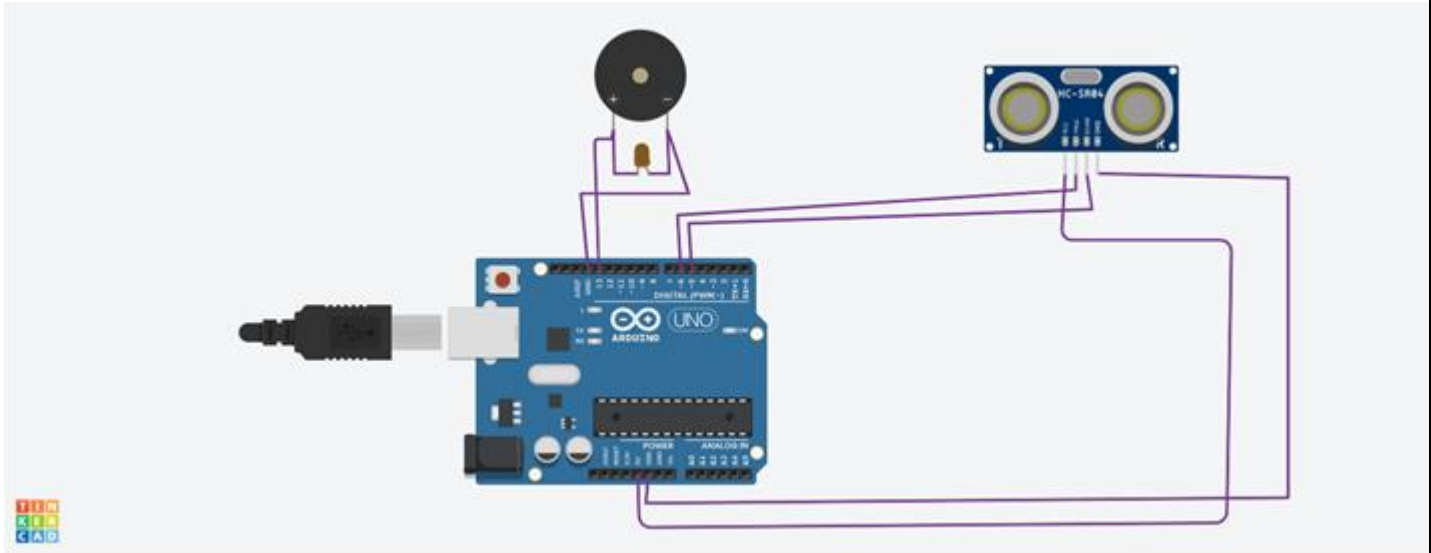
PCB BOARD:



CIRCUIT DIAGRAM:



SIMULATION USING ARDUINO:



PROBLEM:

- All over the world nearly 35.5 people died due to COVID-19 and till now there are 17.7 Cr covid cases are confirmed. Many of the people don't even have a prior knowledge on social distancing which is the first and foremost way to prevent spread of virus.

SOLUTION:

- A simple social distance reminder ID card will be working very much effective for this pandemic situation.
- After getting all supplies now you can start connecting all the components in the right way according to the circuit diagram given above.
- Now after completing the above steps, we just start gluing components in the right place as shown in the above pictures.
- And finally, we can paste it with our old ID cards as such and if we need any details about ourselves, we can add a swipe card and we can write over it or we can even paste our visiting card in front of our device.
- As the whole setup is attached to a rope it we can easily carry out this device and it will be easily hang out anywhere.
- Once another person enters into 1 m distance the LED will be Automatically starts blinking if a blind person is wearing this they can be identify by the buzzer sound.

CONCLUSION:

- By the above our social distance reminder ID will be working with a perfect manner and it will be equally benefited in all areas.