**DEVICE USE TO HELP MAINTAIN SOCIAL DISTANCING**

**DESCRIPTION**:

➢ Spiritual intelligence is the science of human energy management that clarifies and in the era of bad situation in which everywhere there is a panic like situation and according to the World Health Organization Social Distancing will be proven to be the only solution. It is used to track humans' position in an outdoor environment based on sensors is proposed. With the help of artificial intelligence, this novel smart device is handy for maintaining a social distancing as well as detecting covid symptom patients and thereby safety. In these covid environments, where everyone is conscious about their safety it is the idea . Most of the time, people on the roadside watched their front but were not able to look after what is going on behind them. The device will give alert to the person if someone in the critical range of six feet around him. The method is reasonably accurate and can be very useful in maintaining social distancing. The sensor model used is described, and the expected errors in distance estimates are analyzed and modeled.

This technique is used for portable electronic devices, such as smartphones, tablets, smartglasses, and smartwatches, to measure and analyze the distance between a user and other people. For example, a portable electronic device can be used to detect potential deviations from recommended social distancing using a radar sensor. In aspects, the portable electronic device, using an on-device machine-learned model, evaluates measured data to generate appropriate alerts for the user.

**REQUIREMENTS:**

High level requirements:

Objective:

* In this project, I’m going to design a device which is use to help maintaining social distance using Arduino, Ultrasonic sensor and buzzer.
* We will connect sensor&buzzer with Arduino then dump code in Arduino board using usb connection then we see the how much distance it can detect the objects.

Flexibility:

It is very simple and easy in installation.

Life span:

Indefinite.

Low level requirements:

* Ultrasonic Sensor.
* Battery power supply.
* Arduino.
* Buzzer.
* Bread board.
* Thing Speak cloud.
* System installed with Arduino software.

**SWOT Analysis**:

Strengths:

* Low-cost
* Low power
* Light weight
* Portable
* Safe
* User friendly
* Efficient
* Simple system device.

Weaknesses:

* Limiting testing distance.
* Inflexible scanning methods.

Opportunities:

* Production line robots.
* Parking sensors of cars.

Threats:

very sensitive to variation in temperature.

Who:

Every person.

What:

It can be fitted into mobile covers.

When:

Nearby any places where we can find group of people.

Where:

Applicable to every human being.

How:

* This device can be worn around the neck like an id card.
* It can be fitted into mobile covers.