

ABSTRACT

PROBLEM STATEMENT :

To Eradicate Human Error Accidents While Crossing The Track from the Platform , While the train is passing with a great speed through the Station

INTRODUCTION :

Generally , A Train passes over A Railway Station with a High speed. Usually people who are late to Their Train will Try To avoid the Pedestrian Bridge , and crosses The Platform over the Tracks.

Most of the Vendors often do the same to catch up the trains very soon .As a Result if a train Accidentally Hits them it leads to Human loss certainly Most of them will die due to collision.

TO eradicate such Accidents & Human loss we coined a solution

CAUSES :

- 1.DUE TO LACK OF CAUTIOUSNESS.
- 2.LACK OF AWARENESS AMONG PASSENGERS.
- 3.IMPROPER ALERTING & SECURITY SYSTEMS.

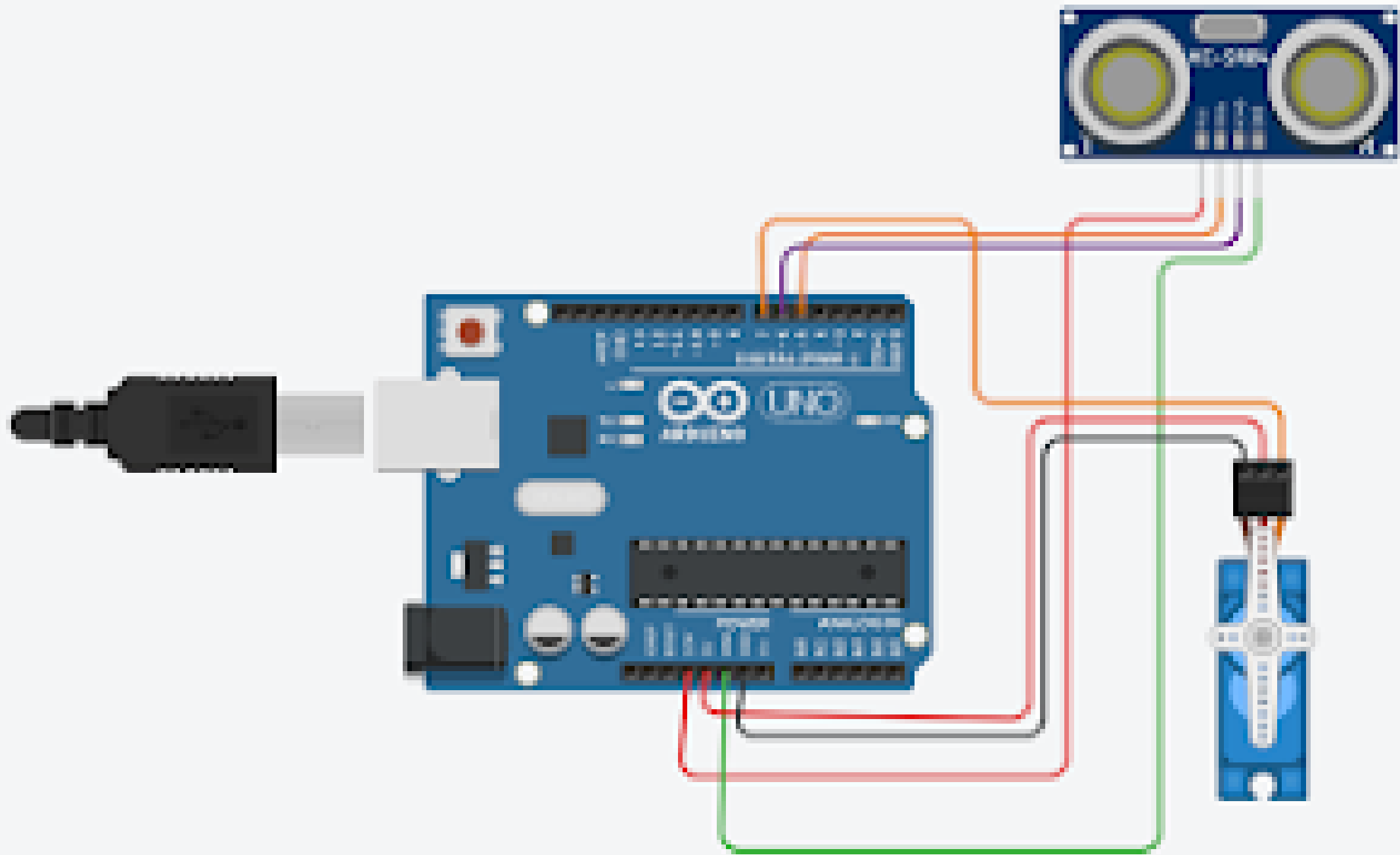
SOLUTION :

TO Eradicate Such Human less & Accidents , We
Came Up Within Solution
By this Project will be Able to Eradicate the
HumanError's and Accidents.

SENSORS AND PARTS USED :

SENSORS	ARDUNIO
GND	GND
ECHO	DG
TRIG	D5
VCC	5v

CIRCUIT DIAGRAM:



CODE :

```
#include <Servo.h> //servo library  
Servo servo;  
int trigPin = 5;  
int echoPin = 6;  
int servoPin = 7;  
int led= 10;
```

```
long duration, dist, average;  
long aver[3]; //array for average
```

```
void setup() {  
  Serial.begin(9600);  
  servo.attach(servoPin);  
  pinMode(trigPin, OUTPUT);  
  pinMode(echoPin, INPUT);  
  servo.write(0); //close cap on power on  
  delay(100);  
  servo.detach();  
}
```

```
void measure() {  
  digitalWrite(10,HIGH);  
  digitalWrite(trigPin, LOW);  
  delayMicroseconds(5);  
  digitalWrite(trigPin, HIGH);  
  delayMicroseconds(15);
```

```

        digitalWrite(trigPin, LOW);
        pinMode(echoPin, INPUT);
        duration = pulseIn(echoPin, HIGH);
        dist = (duration/2) / 29.1; //obtain distance
    }

    void loop() {
        for (int i=0;i<=2;i++) { //average distance
            measure();
            aver[i]=dist;
            delay(10); //delay between measurements
        }
        dist=(aver[0]+aver[1]+aver[2])/3;

        if ( dist<5 ) {
            //Change distance as per your need
            servo.attach(servoPin);
            delay(1);
            servo.write(0);
            delay(5000);
            servo.write(150);
            delay(100);
            servo.detach();
        }
        Serial.print(dist); }

```

THE ABOVE CODE IS INITIALISED IN ARUDINO CHIPSET SUCH THAT OUR APPARATUS FOR THE NEED IS SERVED.

A GATE IS SET TO THE FLOOR OF PLATFORM SUCH THAT IT OPENS AND CLOSES HORIZONTALLY.

THROUGH AUTOMATION SENSORS THE GATE-FLOOR OPENS AND CLOSES AUTOMATICALLY WITHOUT THIRD-PARTY MANUAL INTERFEARENCE.

SUCH THAT IT RESTRICTS THE MOVEMENT OF PASSENGERS TO CROSS TRACK

CONCLUSION:

THROUGH THIS TECHNOLOGY WILLBE ABLE TO ERADICATE HUMAN ERROR ACCIDENTS IN RAILWAY STATIONS.

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