

AUTOMATIC ANTI THEFT ALARM & ALERT SYSTEM

Using internet of things (IOT) we can make a best security system by which help us to detect the motion of the thief and notify us through SMS.

GROUP 5

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PROJECT PROBLEM STATEMENT

PROBLEMS WHICH OCCURRED DURING PROJECT MAKING

- HSecurity and safety have always become a basic necessity for the urban population. With the rapid urbanization and development of big cities and towns, the graph of crimes is also on the rise. To secure and guard our house in our absence, this system came up with the rescue. This system is secure flooring tile connected with IOT when we go out of house, the system is on, then whoever comes inside the house it passes the information over IOT. This system powered is by Arduino it includes, two tiles for demonstration purpose, PIR sensor. Whenever the thief enters in the house, and steps on the floor immediately it will send a message on IOT system.



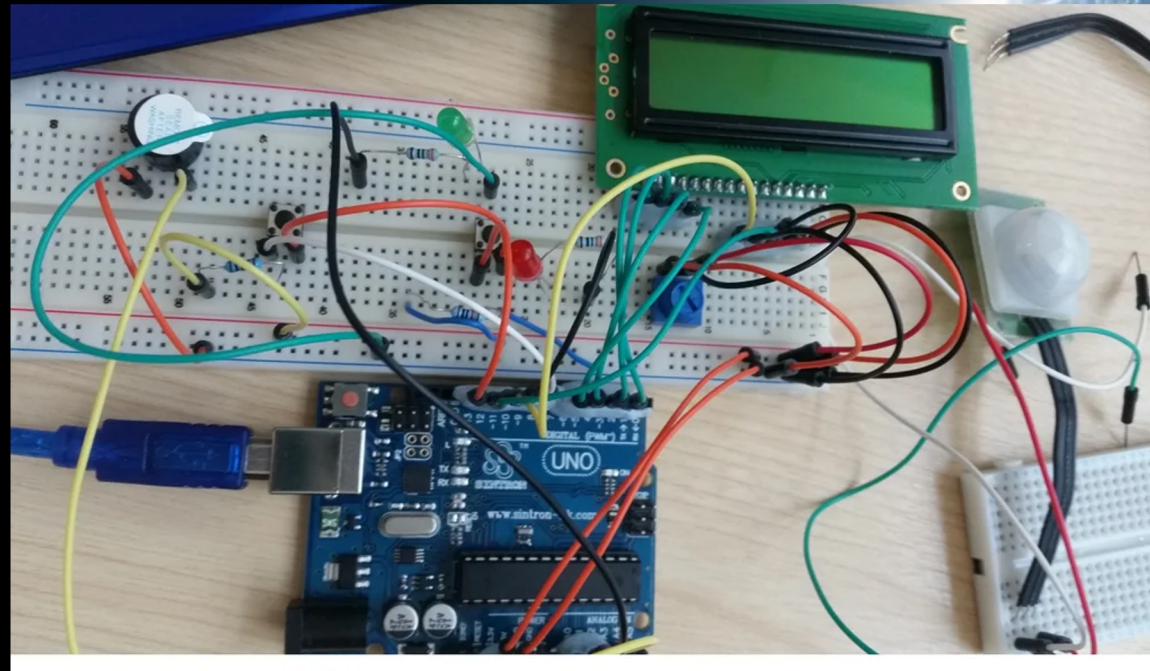
KEY FEATURES/BENEFITS

- This is basically an intruder alarm or an anti theft alarm. So this project is all about building an anti theft alarm or an intruder alarm using Arduino and PIR sensor.
- It is possible to enhance this project with many features like adding a GSM module to send SMS alerts to specified mobile numbers when an intruder is detected (when a motion is detected inside the range of PIR sensor).
- Detect a motion – an intruder or a burglar using PIR sensor activate the buzzer alarm upon detection of burglar/intruder .
- Alarm should sound until Reset switch is pressed Send 2 SMS to a predefined mobile number set inside the program.

REQUIREMENTS

HARDWARE & SOFTWARE REQUIRED.

1. Arduino Uno/Nano
2. PIR Sensor
3. LCD (Optional)
4. Transistor (2N2222)
5. Resistances
6. Button
7. Connecting Wires
8. Buzzer
9. **Software used**
10. Arduino IDE



DELIVERABLES

- **Final Product is a hardware known as Automatic Anti Theft Alarm and Alert System Using Arduino & GSM Module..**
- **Unknown person can be easily detected.**
- **Protection from theifs.**
- **This help in future by which any owner of house and company get notified that any one try to enter in restricted area and it will help in prevent the big robberies.**
- **Alarm should sound until Reset switch is pressed Send 2 SMS to a predefined mobile number set inside the program.**

