https://www.youtube.com/watch?v=WoDQuLzhQFQ

IoT based Disaster Management System

Natural Disasters have threatened mankind since history started. Due to geographic application installed on shelter place like school, college temple. The system can register the receivers such that rescue team to send the notification for help.

The main aim of the project is to design a IOT based disaster security system. This project introduces a system that removes human intervention in disaster alerting.

To design this project accelerometer sensor, vibration sensor, Buzzer, esp8266 wi-fi module and LCD display are interfaced to Microcontroller. Microcontroller will continuously monitor the data from accelerometer and vibration sensor, If the system detects any vibrations or accelerations, it will activate the buzzer for alerts and sending the alert intimation to the user mobile using IOT technology. To achieve this task microcontroller loaded program written in embedded C language.

Objectives:

- Automatic disaster detection and alerting system.
- Wireless intimation Using IOT technology.
- Audible alerts using Buzzer.
- Visible alerts using LCD display.

Major blocks present in this project:

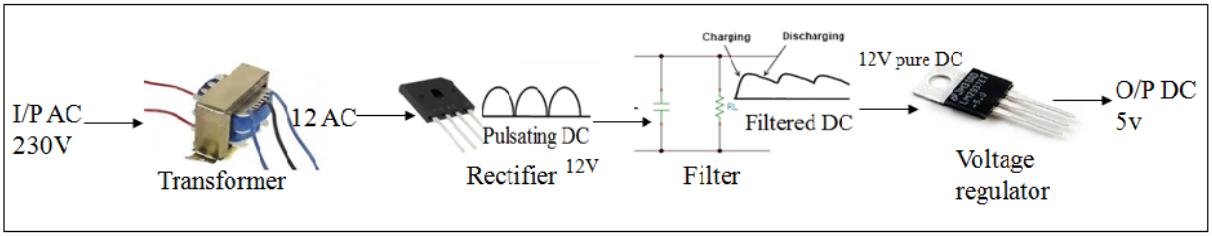
1. Power supply.
2. Arduino UNO Micro controller.
3. Accelerometer sensor.
4. Vibration sensor.
5. LCD display.

6. Buzzer.
7. Esp8266 wi-fi module.

Software's used in this project:

1. Arduino IDE Compiler for C Programming.
2. Express SCH for Circuit design.

Regulated power supply:



Block Diagram:

Block diagram of the project