***Smart surveillance monitoring system***

**Description: -** The project smart surveillance monitoring system fully based on home, this project purpose to make home smart and advance. In the project we will controlled all device to our smart phone and get notification if any device is on when anyone is not present in home like ‘your room fan is on go and off it’. In this project we also controlled all home devices to switches. And we shall be also detecting the gas leakage.

**Component: -**

* MQ-135 Gas/Alcohol/Smoke sensor
* Relay
* PIR Sensor
* Jumper wire
* Raspberry pi
* GSM Module sim800/900
* Breadboard

**About smart surveillance system: -**

Smart surveillance system is controlled by a phone and second option to control it by switches and we will work to make life easy and make device smart. We shall be control electric bulbs, fans and many other devices by our smart phone. And also we get an advantage that we keep a safety like gas leakage and electric bulbs and fan on that time we get massage.

**Advantages of this project: -**

* Display in many fields
* Make life easy
* Keep a safety option
* Can save electricity
* Make home smart
* Can see devices status on phone

**About main components: -**

1. **PIR Sensor** - this component work to sense the humanity and detect the human’s presence. In this project it work to detect the human presence, if no one present in the room and lights, fan on that time this give us input and other device work on it.
2. **MQ-135 Gas/Alcohol/Smoke sensor** - this component is use for the detect the house gas if the gas start leakage it gives input and other components work to alert.
3. **Relay –** Relay is used for convert AC power current to DC power. It is important for our project because we provide the AC.
4. **GSM module SIM 800/900 –** This module is a sim module. It will work to alert in the project
5. **Raspberry pi** – Raspberry is main component of our project. It controls all components

**Uses: -**

* Making smart home
* Detect gas leakage
* Alert any device on
* Control devices by phone

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