**SMART LPG LEAKAGE DETECTOR**

**PROBLEM DEFINITON**

**Problem statement**

This project is made to solve the problem of deaths caused by gas leakages which cause fire. The problem is faced in areas where there are usage of gases i.e homesteads, industries etc. . The cause of fire is caused when there have been a fire in the area of leakage.

**PROJECT CRITERIA**

The smart lpg leakage detector will help to detect the gas leakage and notify one that there is the leakage and it will enable one to control the leakage. The project will be helpful in saving lots of life lost through the explosion of gases.

**PROJECT REQUIREMENTS**

1. Arduino uno
2. SIM900A GSM module
3. MQ 6 sensor
4. MG996R high torque servo motor
5. LED
6. Buzzer
7. 12V, 2A adapter

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| **COMPONENTS** | **THEIR USAGE** |
| **A**rduino uno | Running the code |
| SIM900A GSM module | Send alert message on mobile phone |
| MQ 6 sensor | Detect gas leakage |
| MG996R high torque servo motor | Turn off the gas regulator on leakage |
| LED | Turn when gas leakage is detected |
| Buzzer | Turn when gas leakage is detected |
| 12V, 2A adapter | Power up the circuit |