

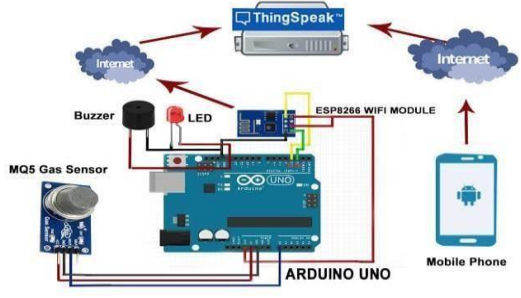
Project Design Phase-I
Proposed Solution Template

Team ID	PNT2022TMID16001
Project Name	Gas leakage alerting and monitoring system
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To detect the gas leakage to alert the user through notification
2.	Idea / Solution description	In order to have a control over such conditions we proposed system that uses sensors which is capable of detecting the gases such as LPG, CO ₂ , CO and CH ₄ . This system will not only able to detect the leakage of gas but also alerting through audible alarms.
3.	Novelty / Uniqueness	<ul style="list-style-type: none">• Ability to predict the hazardous situation• Low cost
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none">• This model is vital for the society as there are lot of people unable to detect the gas leakage prior the fire accident.• we have used the IoT technology to make a Gas Leakage Detector for society which having Smart Alerting techniques involving sending text message to the concerned authority and an ability performing data analytics on sensor readings.

5.	Business Model (Revenue Model)	 <p>The diagram illustrates a gas detection system. An Arduino Uno microcontroller is connected to an MQ5 Gas Sensor, a Buzzer, and an LED. An ESP8266 WiFi Module is also connected to the Arduino Uno. The system is connected to the Internet via the WiFi module, which sends data to a ThingSpeak cloud server. A Mobile Phone is also connected to the Internet, likely for monitoring the data.</p>
6.	Scalability of the Solution	Develop a proposed system which include some safety factors.