

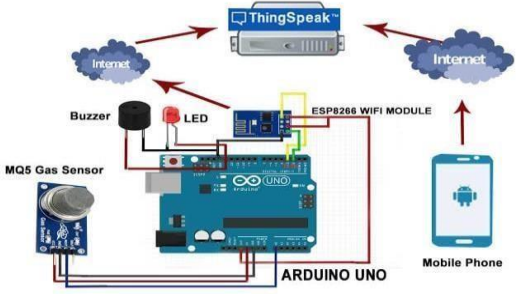
Project Design Phase-I
Proposed Solution Template

Team ID	PNT2022TMID49765
Project Name	Gas leakage alerting and monitoring system
Maximum Marks	2 Marks

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 CO ₂ , CO and CH ₄ (Methane). 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• It will monitor Methane Gas Leakage
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 used the IoT technology to make a Gas Leakage Detector for society which having an 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 smart home security system. At the center is an Arduino Uno microcontroller board. It is connected to several components: an MQ5 Gas Sensor, a Buzzer, an LED, and an ESP8266 WiFi Module. The ESP8266 module is connected to the Internet cloud, which is also connected to a ThingSpeak server. A Mobile Phone is also connected to the Internet cloud. The system is designed to detect gas leaks and send alerts to the ThingSpeak server and the mobile phone.</p>
6.	Scalability of the Solution	<p>Develop a proposed system which include some safety factors. If there is no motion detection, the doors will lock automatically.</p>