

Empathy Map Canvas

Gain insight and understanding on solving customer problems.

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Build empathy and keep your focus on the user by putting yourself in their shoes.

What do they HEAR?

- The gas leakage is sensed by MQ2 sensor which sends a high pulse to Me which in turn updates it in the IoT system, and the buzzer will be heard in the RFRx kit (8).
- Our device consists of three main parts. a) Detection System: This part consists of a microcontroller which continuously monitor the gas concentration. b) Prevention System: This part consists of a solenoid valve that we will be designing. c) Control System: This part will be similar to present regulations but a sensor will be added to the system that know to allow automatic as well as manual operation. In case of an exhaust fan and window is made, in which the sensor would make it run in case of gas leakage. The detection system will be interfaced with Arduino Uno which will be controlling the whole device.
- With 140 deaths per year linked to gas leaks, gas safety is something that every household should take seriously. LPG cylinders are commonly used in every house and are something we are dependent on. But these harmless looking cylinders injured hundreds of people every year. Natural gas is safe when installed and used correctly. But still, gas leaks can occur. So, here's what you should do if you suspect a gas leak or when that pungent smell hits your nostrils.
- The sensor-enabled solution reduces the risk of gas explosion and any casualties inside or outside the main premises.
- Imagine that one Tuesday evening in the middle of the semester you see your friend Joachim. He just finished his dinner and tells you that he has to go to the library to study for an exam on a term paper. When you see him the next day, however, he is not at school. You wonder what happened. Instead of going home to study, Joachim spent the entire evening listening to music at a rock club. He got home late and fell asleep. He may have stayed up late to watch the last set, and didn't get home until the crack of dawn. And he woke up so late this morning that he missed his ride to school.
- It is known that oxygen is required for combustion. For leakage monitoring in a petrochemical industry we will design an integrated system which will monitor the gas leakage in any area and the gas leak detector which is a wireless communication device.

What do they THINK AND FEEL?

what really counts
major preoccupations
worries & aspirations

OUTEST™

What do they SAY AND DO?

attitude in public
appearance
behavior towards others

What do they SEE?

environment
friends
what the market offers

PAIN

fears
frustrations
obstacles

GAIN

"wants" / needs
measures of success
obstacles

Share your feedback

Our main aim is to proposing the gas leakage detection system for society where each flat have gas leakage detector hardware. This will detect the harmful gases in environment and alerting to the society member through alarm and sending notification.

Since many facilities will have numerous types of gases at their sites, it is crucial to select detection systems that include multi-gas detectors. Though these detectors often cost more, they are long-lasting, can be used in virtually any type of facility and work environment.

Our main aim is to proposing the gas leakage detection system for society where each flat have gas leakage detector hardware which detects the harmful gases in environment and alerting to the society member through alarm and sending notification.

If these gases exceed the normal level then an alarm is generated immediately and also an alert message (SMS) is sent to the authorized person through the GSM.

If you see an unusual cloud of mist or fog around your property, it could mean a ruptured gas line. Call your gas company right away. If you find a gas leak, If you detect a gas leak, open up some windows and doors, and leave the area immediately.

use of toxic gases and asphyxiants in their facilities.

That is where a gas detection system is necessary at accident-prone locations, including households, to continuously monitor any kind of leakage - regardless of the human senses - and send an alert to the end-user.

The sensors are widely used to detect essence of propane, iso-butane and even smoke. The sensor has an advantage to combine a sensitivity response time. If the LPG sensor senses gas leak from work place or home, sensor output goes to active low (logic-0) condition.

Leakage of gas is a major issue in the industrial sector, residential buildings, and gas-powered vehicles, one of the preventive methods to stop accidents associated with gas leakage is to install gas leakage detection devices.

The gasses are toxic in nature, resulting in human unconsciousness and even death if consumed in larger quantities. Moreover, gaseous blasts are another disaster that everyone - working in a factory or at home - would want to avoid at all costs!

Keeping the levels of methane, hydrogen sulfide and carbon monoxide in check is essential. In any commercial or personal territory to avoid poisonous gas leaks and blasts.

It is a leading sensor in the field of safety detection.

The presence of these gases can be easily detected in the industrial facilities and commercial buildings with the help of IoT-powered gas monitoring solution.

Unintentional gas leaks give rise to explosions that are hard to control and cause loss of life and property. The gas sensors help detect the concentration of the gases present in the atmosphere to avoid hazardous consequences like fire breakout.