

Project Design Phase-I Problem – Solution Fit Template

Date	15.10.2022
Team ID	PNT2022TMID09849
Project Name	Gas Leakage Monitoring and Alerting System using IoT
Maximum Marks	2 Marks

Problem – Solution Fit Template:

The Problem-Solution Fit simply means that you have found a problem with your customer and that the solution you have realized for it actually solves the customer's problem. It helps entrepreneurs, marketers and corporate innovators identify behavioral patterns and recognize what would work and why

Purpose:

- ☐ This project helps the industries in monitoring the emission of harmful gases.
- ☐ In several areas, the gas sensors will be integrated to monitor the gas leakage.
- ☐ If in any area gas leakage is detected the admins will be notified along with the location.
- ☐ In the web application, admins can view the sensor parameters.

Template:

1. CUSTOMER SEGMENT(S) CS <ul style="list-style-type: none"> Industrialists Engineers Safety Control Personals 	6. CUSTOMER CONSTRAINTS CC <ul style="list-style-type: none"> Network Connection Complexity in Installation 	5. AVAILABLE SOLUTIONS AS <ul style="list-style-type: none"> Upgrading to a premium network plan. Availing network connection from a reliable Service provider.
2. JOBS-TO-BE-DONE / PROBLEMS J&P <ul style="list-style-type: none"> Capability of the device to withstand in harsh environment is questionable. Due to network issue data couldn't be uploaded to the cloud at all times. 	9. PROBLEM ROOT CAUSE RC <ul style="list-style-type: none"> Quality of the material using which the device is made up of plays a vital role in the capability of the device to work in harsh environment. Location of the device installation and the network plan used by the user are the cause of Network issue. 	7. BEHAVIOUR BE <ul style="list-style-type: none"> Harsh environment is prevailing only on certain industry; thus, the frequency of the said problem is low. In such a case the customer complains multiple times to get the attention. Network issue is very common as most of the industries are located at the country side. Here the contact both the developers and the service providers
3. TRIGGERS T&R <ul style="list-style-type: none"> Usage of the device is portrayed in the news. In real life situation, the device has helped in saving number of individuals. 	10. YOUR SOLUTION S <ul style="list-style-type: none"> Network strength must be boosted in the device Device can be manufactured in multiple standards based on the environment. 	8. CHANNELS OF BEHAVIOUR CH 8.1 ONLINE <ul style="list-style-type: none"> E-Mail to developers Online Community 8.2 OFFLINE <ul style="list-style-type: none"> Complaint Letters
4. EMOTIONS: BEFORE/AFTER EM <ul style="list-style-type: none"> Before the action is taken, the user feels deceived and cheated. After the problem is resolved, user feels the sincerity of the developers. 		

