

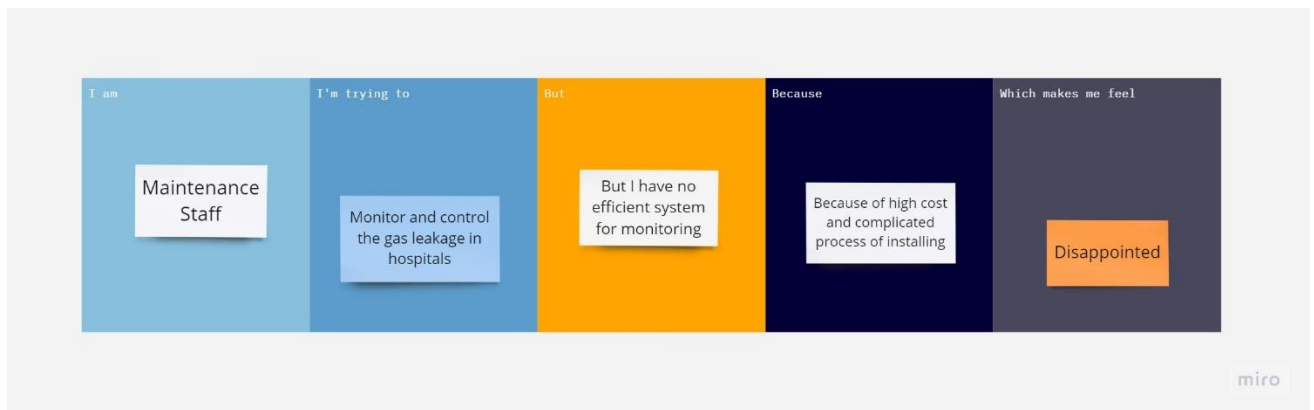
Ideation Phase

Define the Problem Statements

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| Date | 06 May 2023 |
| Team ID | NM2023TMID14262 |
| Project Name | Gas Pipeline Monitoring System for Hospitals |
| Maximum Marks | 2 Marks |

Problem Statement:

It is essential to maintain proper levels of gas, as it is used in operating theatres in order to improve patient's condition. Oxygen is the most common and important gas that has to be checked at regular intervals for availability. Leakage of these gases can pose a severe threat to the safety of lives in hospitals. Through this smart system, staff will now be able to check the level of gas present for use and will be able to take safety measures when alerted during a gas leak. Sensors are used to record the levels of gases, which are stored in the cloud. These values can also be displayed on a mobile application for the users.



| Problem Statement (PS) | I am (Customer) | I'm trying to | But | Because | Which makes me feel |
|------------------------|-------------------|-------------------------------------|---|---|---------------------|
| PS-1 | Maintenance Staff | Monitor gas leakage in the industry | I don't have any system for monitoring | The affordable of the system is high and the systems are sometimes making disasters | Unsafe |
| PS-2 | Maintenance Staff | Control the gas leakage | Also, the installation process is too complicated | The number of sensors is unpredictable and the positioning of equipment is improper | Disastrous |

Reference: <https://miro.com/templates/customer-problem-statement/>