

## Ideation Phase

### Define the Problem Statements

Date	08.05.2023
Team ID	NM2023TMID16319
Project Name	Industrial Workers Health and Safety System based on Internet of Things

### Customer Problem Statement & Templates:

The challenge lies in ensuring real-time health and safety monitoring for industrial workers, as the current manual inspection and periodic checks are inefficient, time-consuming, and prone to human error. The objective is to develop an IoT-based system that integrates sensors, devices, and data analytics to create a comprehensive monitoring and alert system. This system will continuously collect data on parameters such as temperature, humidity, gas levels, noise levels, and worker vital signs. It will also include location tracking to enhance worker safety in hazardous areas. Real-time data processing and analysis will enable the system to detect anomalies, identify potential hazards, and trigger immediate alerts to workers and supervisors through visual, auditory, or wearable device notifications. The system will provide a user-friendly interface for accessing and interpreting data, enabling workers to report incidents and supervisors to monitor the real-time status of workers. Additionally, the system will generate reports and analytics to identify trends, patterns, and areas for improvement, enhancing preventive measures and optimizing health and safety protocols.

### Problem statement 1:

I am customer	I'm trying to	But	Because
Industrial Worker	Complete coal mining	Dangerous gas gets leaked	Due to improper maintainance

Which makes me feel

Anxiety

