IDEATION PHASE

DEFINE THE PROBLEM STATEMENT

Date	2 October 2022
Team ID	PNT2022TMID00340
Project Name	Hazardous Area Monitoring for Industrial Plant powered by IoT
Maximum Marks	2 Marks

Project Problem Statement:

Ideal Situation:

Monitoring hazardous areas inside an industrial plant can be done with the help of cloud technology and integration platform services.

Reality:

Acquired data from real-time continuous monitoring would be of large quantities storing them in a cloud is a costly affair yet doable. Real-time monitoring of crucial parameters to find the potential threats which may lead to fatal accidents is an arduous job. Integrating all essential features into one wearable device might be difficult.

Consequences:

Without all necessary acquired data it may be hard to detect and find the potential threats inside the industrial plant. Missing one crucial parameter while monitoring may lead to fatal incidents. Integration of essential features into one device will require a handsome capital.

Proposal:

Hazardous elements within an industrial plant can be monitored at a cost effective and efficient way by using Sensor-cloud Technology and Remote sensing applications.

Customer Problem Statement:

I AM	**An employee working in an industrial plant**	**A supervisor monitoring the working of the industrial plant**
I AM TRYING TO	**To protect me from hazardous situations while working in the industrial plant**	**To monitor crucial parameters to find potential threats which might lead to fatal accidents**
BUT	**It is difficult to work and be alert simultaneously**	**It is arduous to monitor in real-time as there is a mountain of data to look at.**
BECAUSE	**It may reduce my productivity**	**Monitoring data for longer periods of time is exhaustive**
WHICH MAKES ME FEEL	**Insecure and unsafe**	**Burdened**