PROJECT DESIGN PHASE-1

SOLUTION ARCHITECTURE

Team ID	PNT2022TMID27744
Project Name	HAZARDOUS AREA MONITORING FOR INDUSTRIAL PLANT POWERED BY IOT
Maximum Marks	4 Marks

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

To monitor the condition, we can integrate the smart device in the area which are needed to be monitored every device will be acting as a beacon and it is connected to temperature and gas sensors**.**

In this project, we create an IoT-based hazards monitoring system specifically suited to the requirements of mining, refining, manufacturing and chemical industries.

The system actively records, processes and analyzes the temperature of the surroundings, which is a prime safety parameter in areas where molten metal is processed, manufacturing is done or welds are made. if a parameter is violated, the system sends an immediate notification to a set of a preset list of users on their smartphone and continues logging and monitoring data for further analysis to suggest improvements in the safety regulation of the industry.

Broadcast the temperature and gas leakage data along with the location of that particular area through beacons. The persons who generally monitor these places will be given a wrist band and cell phones by alerting the call and SMS.
Whenever the person enters the desired area then he can view the required parameters and can be alerted, these are sent to the cloud storage.

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