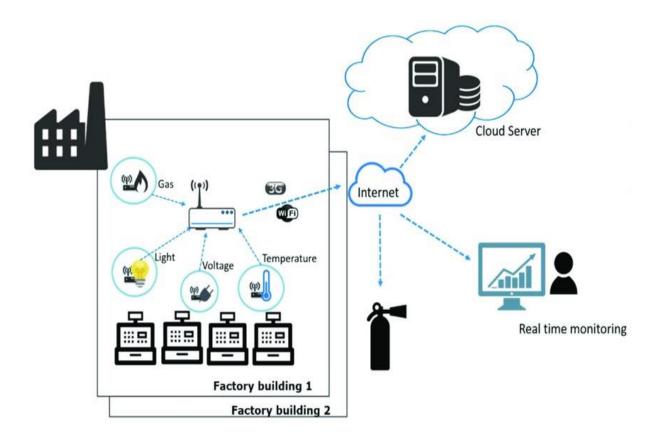# Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	03 October 2022
Team ID	PNT2022TMID28572
Project Name	Project - Hazardous Area Monitoring for Industrial Plant powered by IoT
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Cloud Registration	Registration through Gmail
FR-4	Cloud Confirmation	Confirmation via OTP and Email
FR-5	User Login	Login using credentials
FR-6	User testing	Only verify any alert messages
FR-7	User action	There is any alert message, admin alert the workers
FR-8	Authentication	Through OTP verification Through Strong passwords
FR-9	Administration functions	Preventing and monitoring each and every second. There is any deviation Admin send an alarm to workers.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	High usability of user experience design for user, which is to solve the problem efficiently.
NFR-2	**Security**	The connection of the beacons to the cloud and wearable devices should be secure. Because The system can accessed by authorized person only.
NFR-3	**Reliability**	Reliability is high because of the continuously tracking to predict the accidents caused due to environmental factors.
NFR-4	**Performance**	The Performance should be very effective and efficient. when There is any deviation detected, Send an alert message to admin.
NFR-5	**Availability**	This application is available to use online and also it will meet all the requirements of the users with better services.
NFR-6	**Scalability**	Website traffic limit must be scalable enough to support users at a time. The system should have upgradable feature.