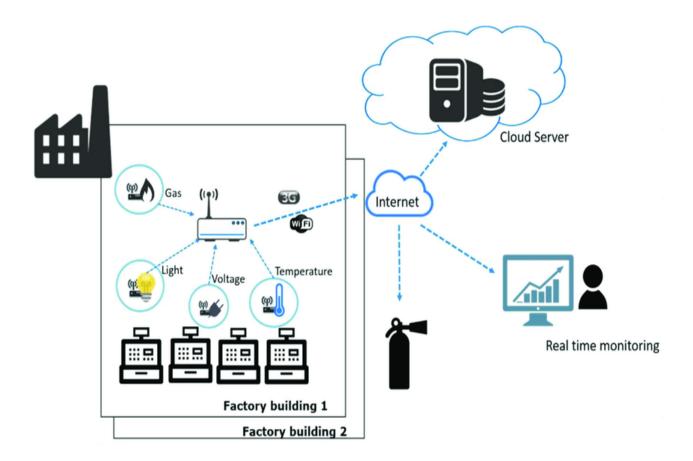
## Project Design Phase-II Solution Requirements (Functional & Non-functional)

Date	15 October 2022
Team ID	PNT2022TMID41272
Project Name	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	Communicate and exchange information to provide server for user	To monitor the temperature parameter of the Hazardous area in industrial plants.
		Alert the person working in those areas and admins of that particular plant through SMS using API.
FR-2	Live asset monitoring	Set the reference Temperature
		Detect the temperature and the particular location.
		Warning when the temperature raise to set temperature.
FR-3	User requirement	Easily integrate with the current solution
		It eliminates the time consuming process and workers requirement.
		Improve efficiency.
FR-4	Mandatory	Keep safe from unexpected injuries.
		The reduction of human risk.
		Spotting disastrous earlier and taking precautions.
		The required information exist for a long time.
FR-5	Testing	The test case status is pass if
	Reference Temperature(T1)	When the current temperatures equal to reference temperature(T1).
	Crossed the Reference Temperature	Once the temperature cross the warning SMS will be sent to the workers and admins of the plant.
FR-6	Architecture	(image)



## **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 system can accessed by authorized person only.
NFR-3	Reliability	Monitoring the temperature parameter and providing clear solution for it, by accurate real time data collection.
NFR-4	Performance	The Performance should be very effective and efficient.
NFR-5	Availability	The existing system affects the workers due to a minute error may lead to great loss and the company may face the catastrophic failure.
NFR-6	Scalability	Website traffic limit must be scalable enough to support users at a time.  The system should have upgradable feature.