Project Design Phase-II

Technology Stack
(Architecture & Stack)
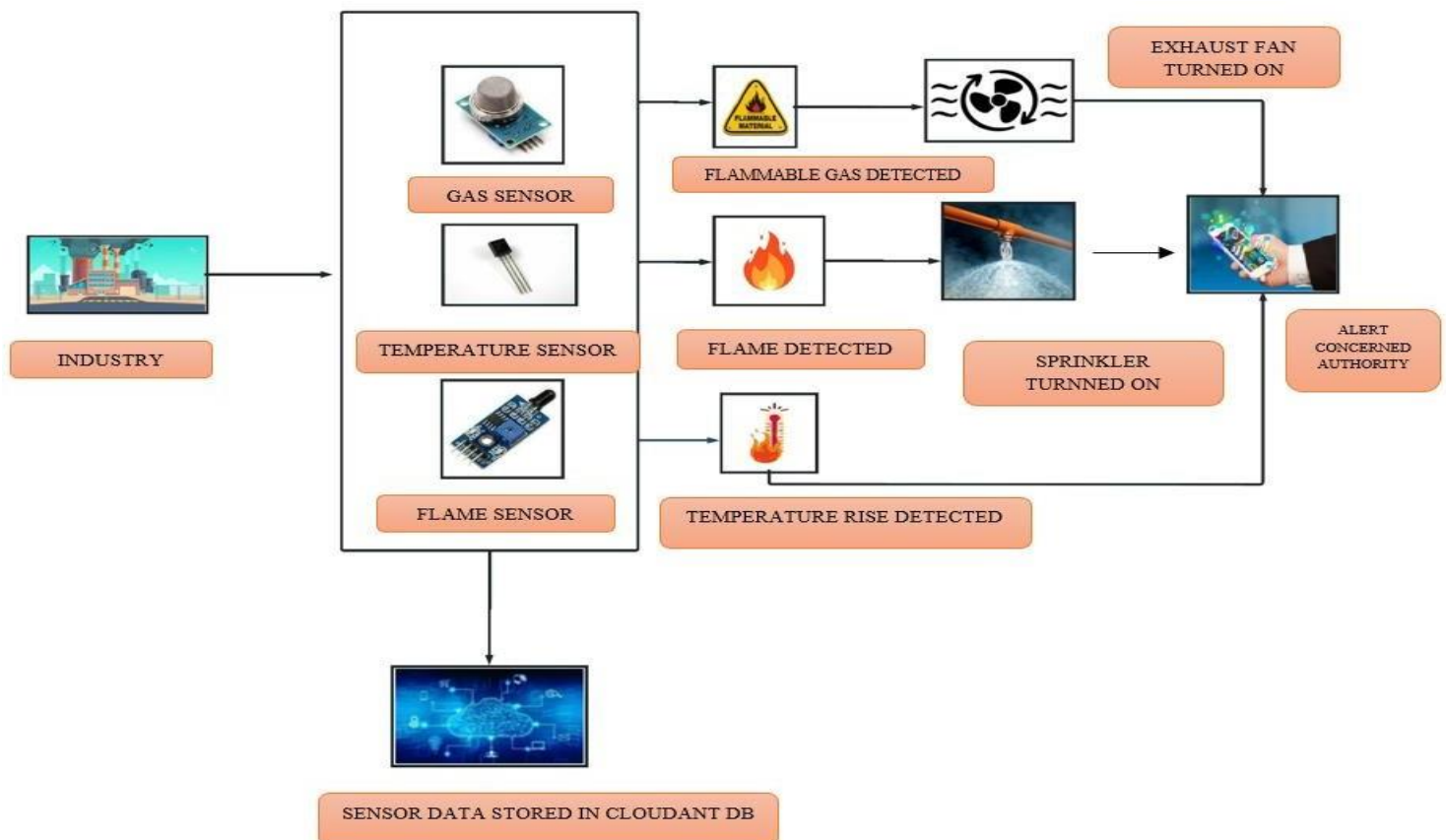
Date	22 October 2022
Team ID	PNT2022TMID04760
Project Name	Project - Industry Specific Intelligent Fire Management System
Maximum Marks	4 Marks

Industry Specific Intelligent Fire Management System

References: https://www.systemsensoreurope.com/wp-content/uploads/2019/12/Intelligent_guide.pdf

Technical Architecture

The architectural diagram of the model is as below and the Technology used is shown in table1 & table 2

Table -1: Components and Technologies

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application (Web UI)	HTML, CSS, JavaScript
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson IOT Platform
4.	Database	Data Type, Configurations etc.	MySQL
5.	Cloud Database	Database Service on Cloud	IBM Cloudant
6.	File Storage	File storage requirements	IBM Block Storage
7.	External API-1	Purpose of External API used in the application	REST API
8.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	Local, Cloud Foundry.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Node.js, Web UI
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Encryption, IAM Controls
3.	Scalable Architecture	Justify the scalability of architecture	Three tier(data, Application and Presentation)

References:

https://www.ibm.com/cloud/architecture

https://nodered.org/