Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID21386
Project Name	Gas leakage Monitoring and Alerting System
Maximum Marks	4 Marks

Technical Architecture:

DATA

IBM Cloud

PROCESSED DATA

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Logic for a process in the application	Java / Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
6.	Infrastructure (Server / Cloud)	Application Deployment on Cloud	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Scalable Architecture	We can implement in Industries, Hotels, Public places	IOT (Internet of Things)
2.	Availability	To detect leakage 24/7 for uninterrupted services we have implemented in distributed servers (cloud)	IBM cloud
3.	Performance	If we implemented in industries, it needs many gas sensors to detect	