Project Design Phase-II Technology Stack

Date	16 November 2022	
Team ID	PNT2022TMID45113	
Project Name	ct Name Gas Leakage Monitoring and Alerting	
	System	

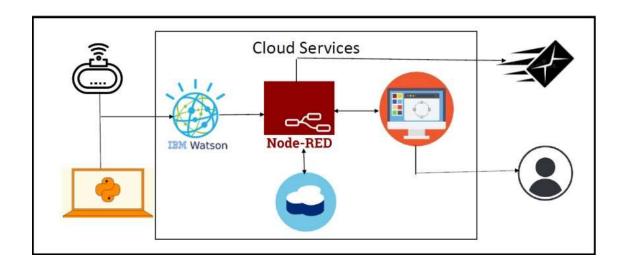


Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	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 STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM Cloudant.
7.	File Storage	File storage requirements	IBM Block Storage
8.	External API-1	Purpose of External API used in the application	IBM Weather API
9.	External API-2	Purpose of External API used in the application	Aadhar API
10.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / CloudLocal Server Configuration: Cloud Server Configuration:	Cloud Foundry

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	The open-source frameworks used	Mozilla Firefox
2.	Security Implementations	The security / access controls implemented, use offirewalls etc.	IBM cloud Encryptions
3.	Scalable Architecture	The scalability of architecture (3 – tier, Micro-services)	IBM cloud architecture
4.	Availability	The availability of application (e.g., use of loadbalancers, distributed servers etc.)	Web application can even be used bythe workers in the industry
5.	Performance	Consideration design for the performance of theapplication (number of requests per sec, use of Cache, use of CDN's) etc.	Since the web application is high efficient, it can be used by the workers irrespective of time.