Project Design Phase-II
Data Flow Diagram & User Stories

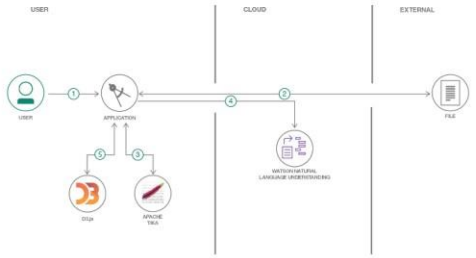
Date	01 November 2022
Team ID	PNT2022TMID04339
Project Name	Project – Gas Leakage Monitoring and Alerting System
Maximum Marks	4 Marks

Data Flow Diagrams:

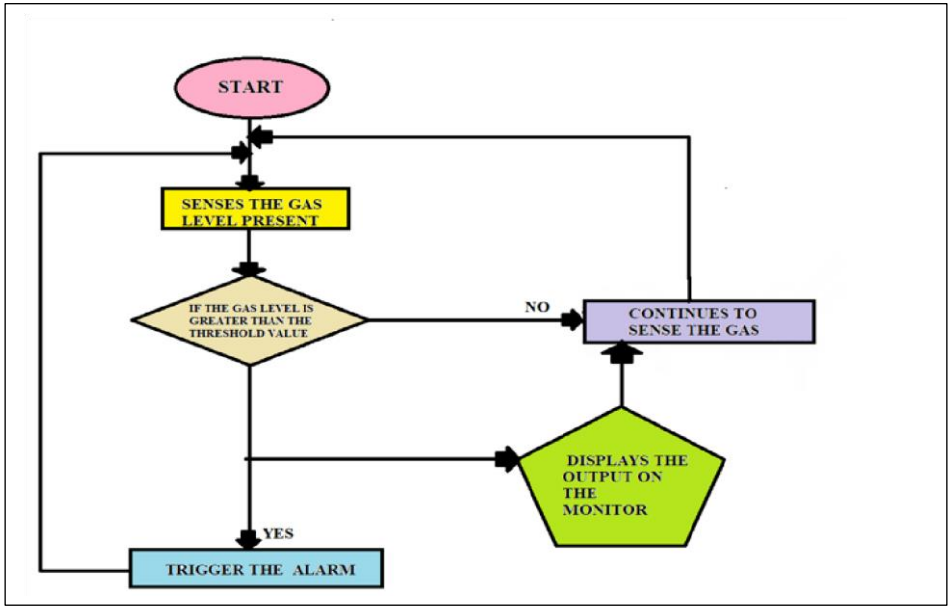
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Example: (Simplified)

Flow



1. User configures credentials for the Watson Natural Language Understanding service and starts the app.
2. User selects data file to process and load.
3. Apache Tika extracts text from the data file.
4. Extracted text is passed to Watson NLU for enrichment.
5. Enriched data is visualized in the UI using the D3.js library.



User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Web Application	USN-1	You can view the gas leakage detection results by accessing the web page directly on to the site as a user.	I can access it on my own to the web page	High	Sprint- 1
	User Availability	USN-2	Users of this application can directly check if the gas is maintained below the threshold level.	Alert is given once it reaches the greater threshold level	High	Sprint-1
	Additive features	USN-3	User can get alert when there is a gas leakage so we can avoid the damage in advance right from where the user is.	I can view the threshold value whether it is maintained or not	High	Sprint-2
	Expectations	USN-4	User can monitor the result based on the sensor values	I can expect	Medium	Sprint-1
	Login	USN-5	Login as user using email Id		High	Sprint-1
Customer (Web user)			As a web user I can view the obtained results in the web page	I can view the results directly from the web	High	Sprint - 1
Customer Care Executive			As a customer care executive, I can see the outputs from the gas leakage and alerting system on the web page which is created.	I can accept the terms	Medium	Sprint - 1
Administrator			As an industry supervisor, we can detect the gas leakage based on the results.	Shows the result based on the gas detected.	High	Sprint - 1
