PROJECTPHASE 2

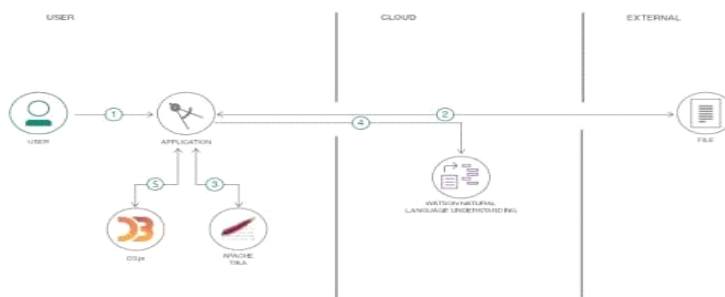| Project Name	Gas Leakage Monitoring And Alerting System InIndustries

Data Flow Diagrams:

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

Gas Leakage Monitoring And Alerting System In IndustriesExample: (Simplified)

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
Worker in industry	Gas detection design coverage	USN-1	Area Coverage for Gas Detectors Like smoke detectors, a gasdetector is capable of providing upto 75SQM area coveragebased on a 5M radius of operation.	Design coverage measures the percentage of test cases coverage against the numberof	High	Sprint-1

				requirements		
Owner in industry	Leak detection	USN-2	In industrial settings leak detection is a routine procedure that is necessary for monitoring product movement.	To detect leaks in fluid system such as piping network and pressure vessels	High	Sprint-1
Owner in industry	Gas detection actions	USN-3	A gas detection system is usually connected with an alarm system, so as soon as the potentially dangerous gas is detected, the alarm is set to ON automatically, which warns the workers in time to safely evacuate.	Gas detection systems are used to monitor and either alarm or be part of processing control	Low	Sprint-2
Worker in industry	Gas detection location	USN-4	A gas detection sensors should be located near the floor for gases or vapors three or four times heavier than air. They should be installed near the ceiling or roof to detect lighter-than-air gases.	To detect install your natural gas detectors in locations close to sources of natural gas.	Medium	Sprint-1