Data Flow Diagram & User Stories

Batch	BE-2M4E
Team ID	PNT2022TMID29465
Project Name	Project - Gas Leakage monitoring & Alerting system for Industries

Data Flow Diagrams:

```
Gas Sensor  ───────────►  Microcontroller
                          /      │      \
                         ▼       ▼       ▼
                       LCD     MQTT    Buzzer
                                │
Python Code ─────┐              ▼
                 ├──►  IBM Watson
Publish Data ────┘              │
                                ▼
                         Connect APIs
                           to app
                                │
                                ▼                  SMS Alert
                         Node RED  ──────────────►
                                   ──────────────► Cloudant DB
                                │
                                ▼
                            Web UI
                                │
                                ▼
                        User Experience
```
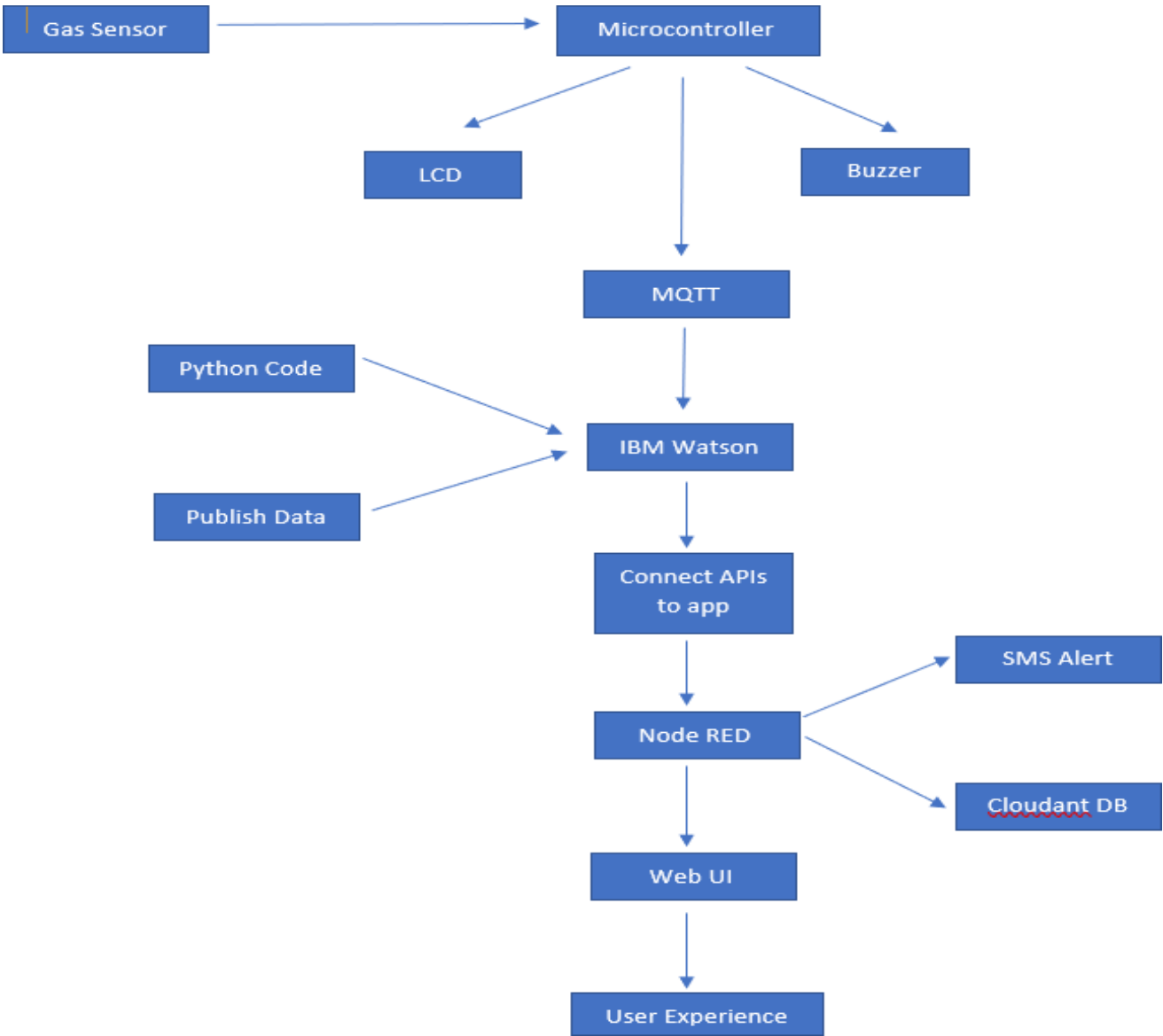
User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (workers)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail	I can register through my Gmail and get access to dashboard	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can see the dashboard which shows industry safety details.	High	Sprint-1
	Dashboard	USN-6	As a user, I able to see industry name and green symbol/red symbol.	I can check whether the industry is safe or not		
Customer (Disaster Department)	login	USN-7	As a user, I can log in through Gmail	I can access dashboard.		
	dashboard		I able to see industry name, safety and location details.	I can monitor the industry Safety conditions.		
Customer (Administrator)	Registration	USN-8	As a user, I can register through industry email.	I can receive a confirmation email and click confirm.		
	login		I can log into the application through registeredGmail	I can access my dashboard.		
	dashboard		I can monitor the industry and see every sensor details.	I can control the access of the workers dashboard.		
			Dashboard shows the sensor parameters.	If sensor value increase certain value it will enable alert notification to worker mobile.		