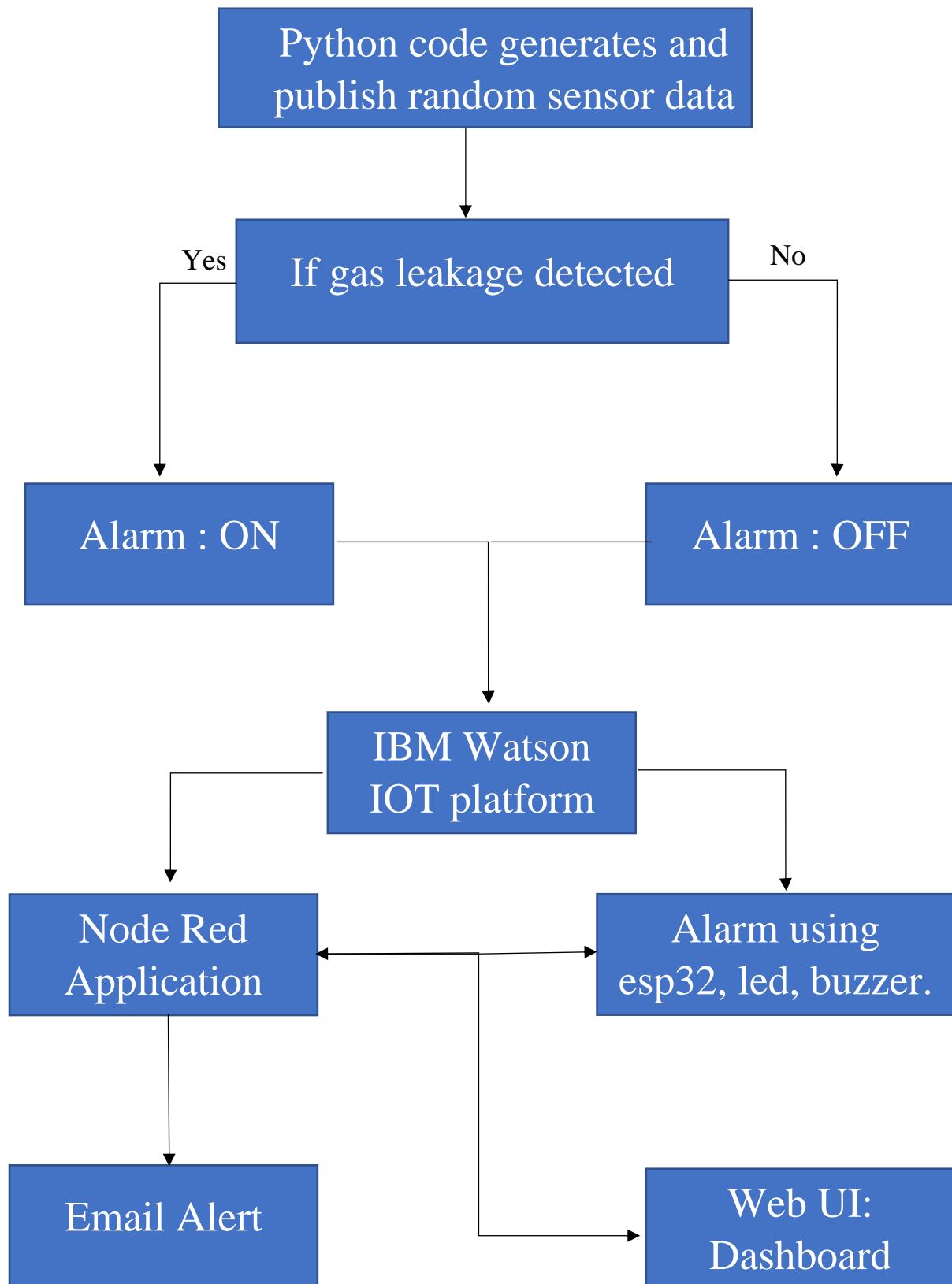


**HINDUSTHAN COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**(AUTONOMOUS)**

Date	31 <sup>st</sup> October 2022
Team ID	PNT2022TMID10014
Project Name	IOT 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.



## User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Admin	Python	USN-1	User can publish sensor data to the IBM Watson IOT platform.	I can publish the random sensor data.	High	Sprint-1
		USN-1	User can view the gas level and the working condition of the sensors in the IBM Watson IOT platform.	I can view the data given by the device.	High	Sprint-2
Admin (Web user)	Monitoring	USN-2	User can monitor the continuous reading of gas levels, temperature and humidity.	I monitor the data continuously using the web application dashboard.	High	Sprint-3
		USN-2	User can toggle the alarm system ON or OFF manually using the web UI dashboard and internet.	I can toggle the alarm state using a switch.	High	Sprint-3
Admin	Working	USN-3	User can view the details.	Act according to the alarm.	Medium	Sprint-3
		USN-3	User can view the alert and turn off the power supply.	Act according to the alarm.	High	Sprint-4
Admin	Action	USN-4	User can see the alarm system created using esp32, led and a buzzer, turning ON and OFF depending upon the gas levels automatically.	I can see the alarm turns ON and OFF automatically.	High	Sprint-4
Administrator	Administration	USN-5	Periodic check the condition of sensors and can make changes according to the needs.	I can maintain the fault tolerance and error rate.	High	Sprint-4

