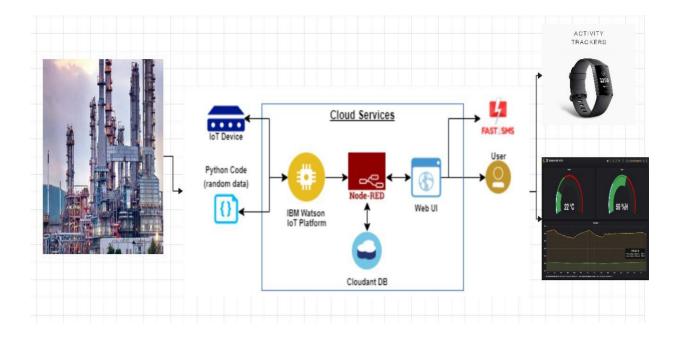
PROJECT DESIGN PHASE-II DATA FLOW DIAGRAM & USER STORIES

TEAM ID	PNT2022TMID03488
PROJECT NAME	Hazardous Area Monitoring for Industrial
	Plants powered by IoT.

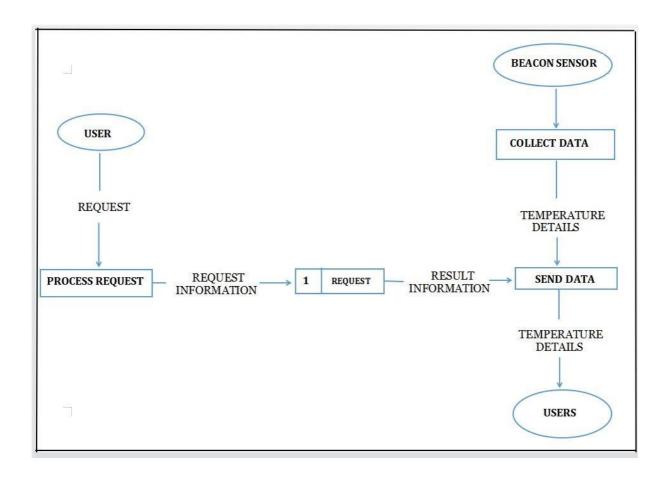
DATA FLOW DIAGRAM:

A data flow diagram (DFD) is a traditional visual representation of the information flows within the system. A neat and clear DFD can depict the rightamount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored respectively.

FLOW:



DFD LEVEL 0 (INDUSTRY STANDARD):



EXPLANATION:

- ♦ Write an appropriate python code for the designated IOT system
- ❖ IOT system is integrated with Watson cloud service for data collection
- ❖ IBM Watson IOT platform provides many services and connected to node red
- ❖ With the help of cloud service, temperature is displayed on the wearable device's dashboard
- Then the incidents in the industries can be avoided

USER STORIES:

USER TYPE	FUNCTIONAL REQUIREMENTS	USER STORY NUMBER	USER STORY/TASK	ACCEPTANCE CRITERIA	PRIORITY	RELEASE
INITIALIZATION	Registration	USN-1	Registration of the user using their credentials	Registration should be easily available to all the workers in the industries	High	Sprint-1
	User Confirmation	USN-2	Confirm the user by sending a verification link and OTP to the mobile number.	The link should be working perfectly and OTP should be sent and within one minute	Medium	Sprint-2
	Rule and Regulations	USN-3	Share the guidelines to be followed during the initialization process	Guidelines help even ordinary people to aware of the installment and working	Medium	Sprint-3
MONITOR THE ENVIRONMENT	Installation	USN-4	The beacon devices should be installed all around the industrial places	The smart beacon devices should cover the entire industries with some distance between them	High	Sprint-1
	Collection of data	USN-5	The ability of the beacon devices is to monitor the temperature of the industrial areas	The temperature parameter is the important parameter to identify the environment condition	High	Sprint-1
	Catalog data	USN-6	The temperature of the industrial area is stored in IBM cloud services and in wearable devices and monitors.	Data should be synchronized between cloud and the wearable devices	High	Sprint-1

EMPLOYEES	Wearable	USN-7	The wearable	The devices	High	Sprint-1
	devices		devices display	should be		
			the temperature	available to all		
			of the industrial	workers and be		
			area when they	worn when they		
			go near the	enter the		
			beacon devices	industrial area		
	Wearable device	USN-8	Devices	Customization	Medium	Sprint-2
	customization		systemized	help the workers		_
			based on their	to have a better		
			ability of	understanding		
			knowledge such	and act		
			as language,	according to it		
			font, size, etc.	J		
	SMS Intimation	USN-9	If the observed	The workers is	High	Sprint-1
			data for an area	notified through	G	•
			is found to be	the SMS if the		
			risky for the	beacon device		
			workers, then	identify any rise		
			they shall be	in temperature		
			notified via SMS	in the		
				environment		
ADMIN	Monitor	USN-10	The	The temperature	High	Sprint₌1
			temperature	changes are	S	•
			absorbed by the	analyzed and		
			beacon devices	monitored		
			will be displayed			
			in the monitor			
			through the			
		cloud				
	Monitor	USN-11	The dashboard	The admin can	Medium	Sprint-2
	Systemization		can be	systemize the UI		- P
			customized	based on their		
		based on the	needs			
		administrator				
			such as alert			
			button, message			
			to the help			
			counter			