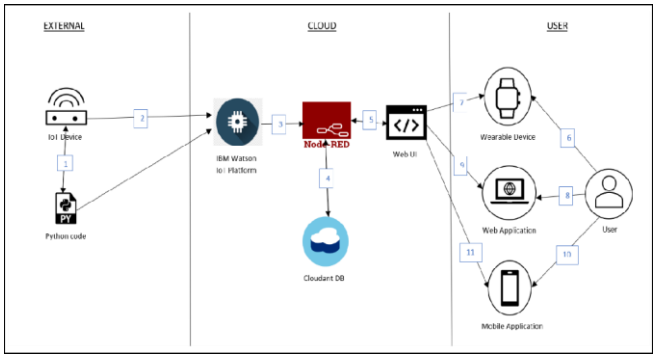
Project Design Phase-II
Data Flow Diagram & User Stories

Date	22 October 2022
Team ID	PNT2022TMID11546
Project Name	Hazardous Area Monitoring for Industrial Plant powered by IoT
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)

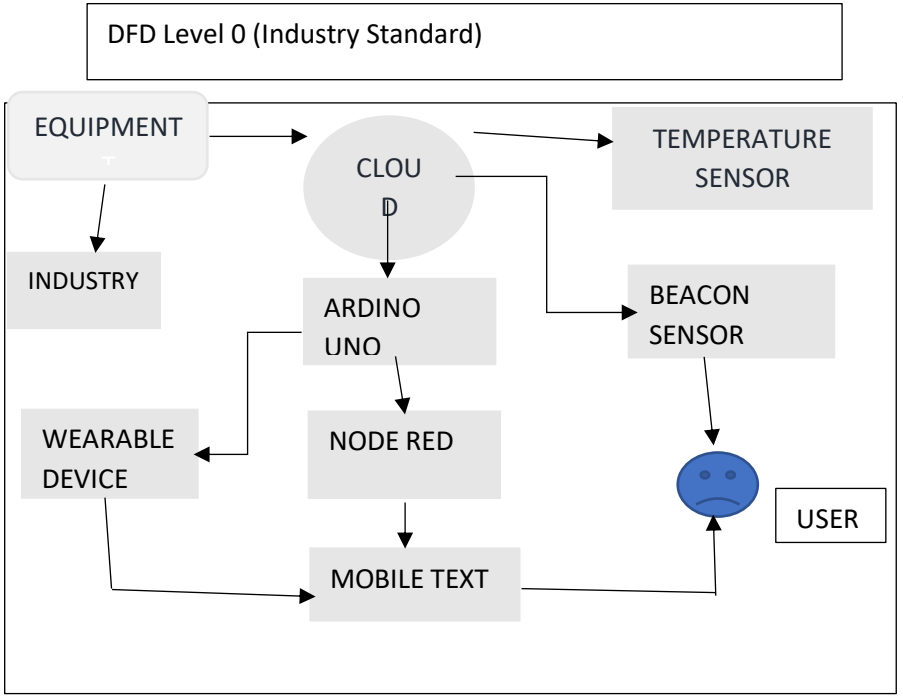


1.A code should be developed to collect all the temperature details from the industry

it should be derived to link IOT device

2. IOT device is connected with IBM Watson IBM platform to collect the data

3. node red service is used for next step for IOT platform is set



4. cloud is used for storing the data

5. for web applications node red will help to do the process so they were connected to each other

6.(6,7,8,9,10,11) user uses some wearable devices are a mobile app to receive the information

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
Professional (project head)	installation	USN-1	Here the technician is used to install the beacon sensor at the industry at correct points which is used to sense the message signals to be alerted	A beacon can be identified from any point from the area of the project	High	Sprint-1
	Data gathering	USN-2	The beacons used here use sensors to collect all the temperature data from their coverage area	The temperature of the covered area is obtained and saved	High	Sprint-1
	Data coincide	USN-3	Beacons are instructed to send the data collected to the cloud if any danger is seen then they are sent to the wearable watch and get notified by workers	These data are sent to the cloud in correct manner and they are sent to other devices	High	Sprint-2
worker	Wearable device	USN-4	Here the wearable device should show the data that has been sent by the beacon and it should be monitored by the worker	The worker can see the temperature of the area through the device	Medium	Sprint-1
	Wearable device adjustments	USN-5	Here the worker can adjust the wearable device according to their taste	The adjustment should ensure them to have a comfortable with it present	low	Sprint-2
	Wearable device customization	USN-6	The user can adjust the fonts of the letters in the device to their need in the device itself	They can set the device display to their needs	low	Sprint-2
	SMS notification	USN-7	The wearable device has the data that has been sent by the beacon sensor and then when the area has fluctuation of high temperature then it sends SMS their linked phone	The workers are alerted by SMS as soon as the temperature fluctuation detected by the beacon sensor	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Administrator	Admin dashboard	USN-8	The beacon sent message to cloud then they sent it to the administrator dashboard	The data in beacon can be seen by the administrator through dashboard	Medium	Sprint-2
	Dashboard customisation	USN-9	The admin can customise their dashboard according to their needs and priorities which can be easy to access	They can customise their dashboard	Medium	Sprint-2