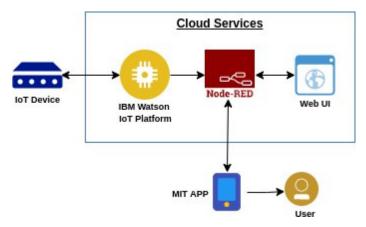
Project Design Phase-II Data Flow Diagram & User Stories

Date	27 October 2022
Team ID	PNT2022TMID38090
Project Name	SmartFarmer – IoT Enabled Smart Farming Application
Maximum Marks	4 Marks

Data Flow Diagrams:

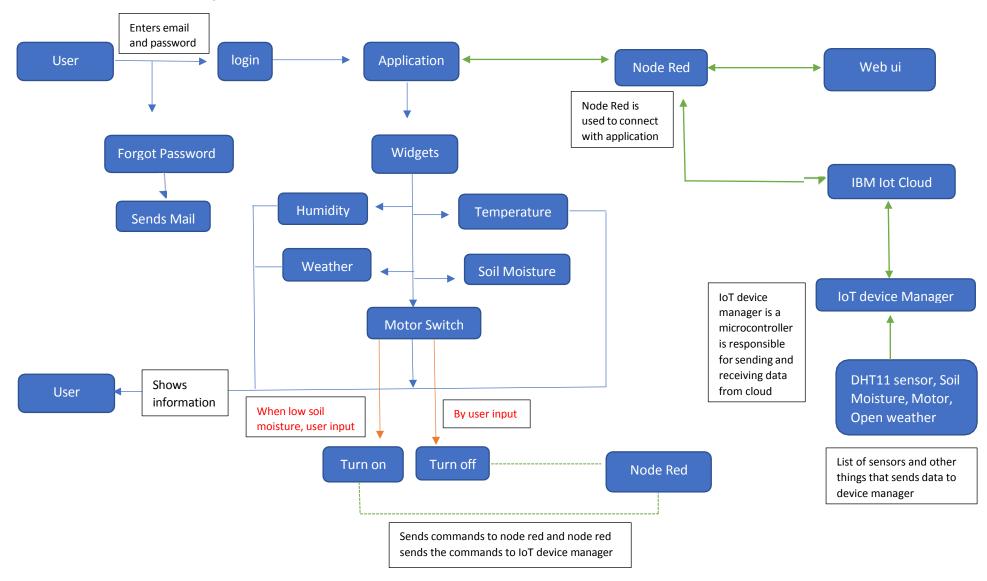
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Example: (Simplified)



- Different parameters such as temperature, humidity, soil moisture are sensed using the sensors.
- Open weather API is used for collecting the weather information.
- Above data are processed with the help of microcontroller which is connected to internet.
- The processed data is updated to cloud for further process
- The IBM Watson IoT Platform is connected with node red services which is connected to the application.
- In application, user can see the parameters/data that obtained from sensors and APIs.
- With the help of application user can interact with IoT devices to perform some functions such turning ON & OFF motor.
- Web UI is also used for visualization of data.

Detailed DFD Level 0 (Industry Standard)



User Stories

Use the below template to list all the user stories for the product.

User Type	Functional	User Story	User Story / Task	Acceptance criteria	Priority	Release
	Requirement (Epic)	Number				
Customer	Registration	USN-1	As a user, I can register for the application by	I can access my account /	High	Sprint-1
(Mobile user)			entering my email, password, and confirming my password.	dashboard		
		USN-2	As a user, I will receive confirmation email	I can receive confirmation	Medium	Sprint-1
			once I have registered for the application	email & click confirm		
		USN-3	As a user, I can register for the application	I can register & access the	Low	Sprint-1
			through Facebook	dashboard with Facebook Login		
		USN-4	As a user, I can register for the application		Medium	Sprint-1
			through Gmail			
	Login	USN-5	As a user, I can log into the application by		High	Sprint-1
			entering email & password			
	Dashboard	USN-6	As a user I want to see everything in single		Medium	Sprint-2
			widget			
		USN-7	As a user I want a organised widgets section		High	Sprint-2
		USN-8	As a user I want a graphical/pictorial		Low	Sprint-2
			representation			
Customer (Web	Dashboard	USN-9	As a user I want a graphical representation of		High	Sprint-2
User)			data for better understanding			
,		USN-10	As a user I want to see a dashboard where I	Dashboard with	Low	Sprint-2
			can customise myself	customisation		
Customer	IoT Device Setup	USN-10	Have to use a least sensor and get better		High	Sprint-2
(Mobile and Web)			output			
,		USN-11	As a user, I need a low cost IoT devices for		High	Sprint-2
			farming			
		USN-12	As a user, I need a multiple sensors for		High	Sprint-2
			various data			

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer Care Executive	User Problems	USN-13	As a user, I don't how to use the application	Manual guide will be there	Medium	Sprint-3
		USN-14	As a user, I need my application to work on most of the mobiles		High	Sprint-3
		USN-15	As a user, I am facing issue in the application	Query form will be there	High	Sprint-3
Administrator	Query Clarification	USN-16	As a admin, I give solutions to their queries		High	Sprint-3
	Particular Access	USN-17	As a admin, I give access only to authorised person		High	Sprint-3
	Connection with loTdevices	USN-18	As a admin, I ensure the correct working of the devices. If any problem arises it will be shared to user		Medium	Sprint-4
Customer (Mobile user)	Application	USN-19	As a user, I need to control my devices	Commands for devices	High	Sprint-4
		USN-20	As a user, I need a events for better productivity		Low	Sprint-4
		USN-21	As a user, I need a more info about plants inside a application		Medium	Sprint-4