

Project Design Phase-II

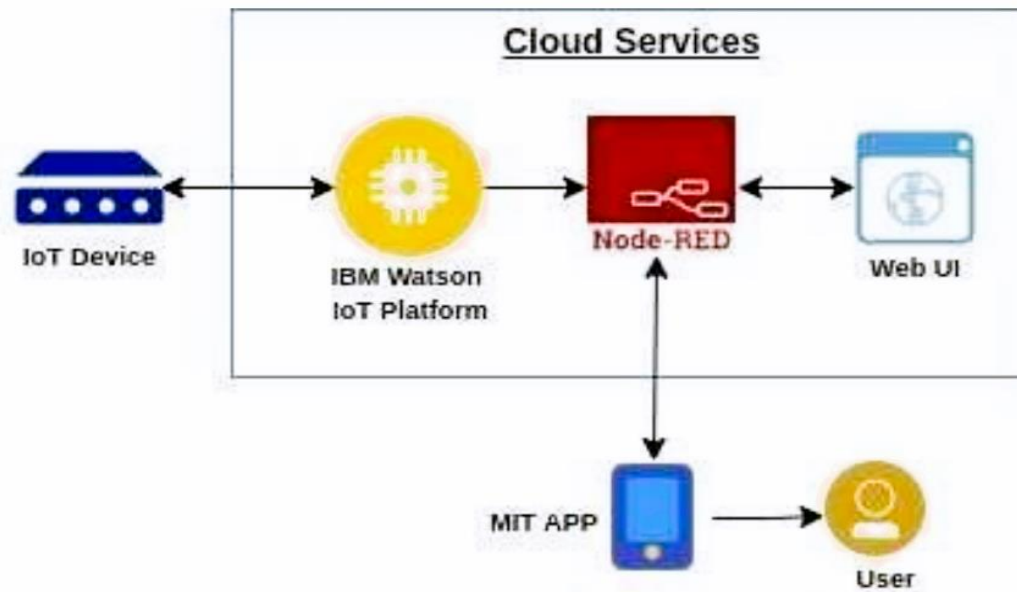
Data Flow Diagram & User Stories

Date	03 October 2022
Team ID	PNT2022TMID42568
Project Name	Smart Farmer -IOT Enabled Smart Farming Application
Maximum Marks	4 Marks

Data Flow Diagrams:

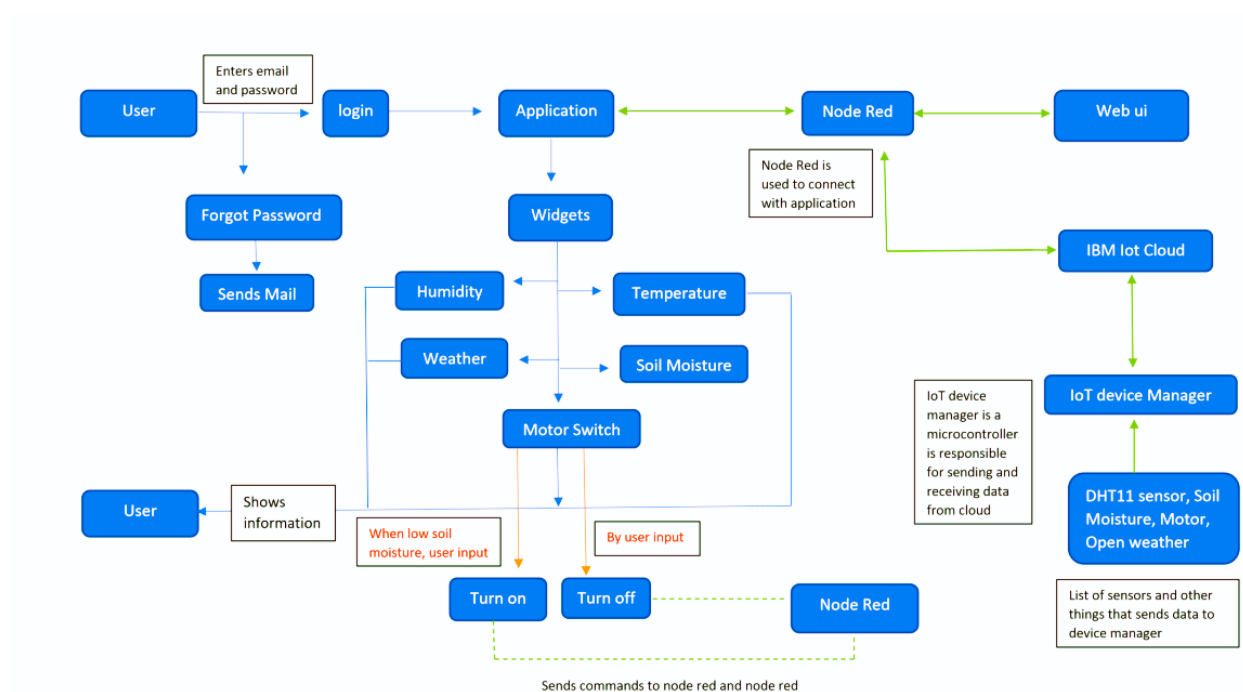
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Example :



- Open weather API is used for collecting the weather information.
- Different parameters such as temperature, humidity, soil moisture are sensed using the sensors
- 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.
- Web UI is also used for visualization of data.
- With the help of application user can interact with IoT devices to perform some functions such turning ON & OFF motor.

Example :



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
Customer (Mobile user)	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-1
		USN-4	As a user, I can register for the application through Gmail	I can register the application	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can log into the application	High	Sprint-1
	Dashboard	USN-6	As a user I want to an organized widget section	I can access my dashboard	High	Sprint-2
		USN-7	As a user I want to see everything in a single widget	A single view is achieved	Medium	Sprint-2
		USN-8	As a user I want a graphical representation of data for better understanding	I can access the graphical representation of data	High	Sprint-2
Customer (Web user)	Dashboard	USN-9	As a user I want a graphical/pictorial representation		Low	Sprint-2
		USN-10	As a user I want to see a dashboard where I can customise myself	Dashboard with customisation	Low	Sprint-2
Customer (Mobile&Web)	IoT Device Setup	USN-10	As a user, I need multiple sensors for various data	Usage of multiple sensors	High	Sprint-2
		USN-11	Have to use a least sensor and get better output	I can get the output	High	Sprint-2
		USN-12	As a user, I need a low cost IoT devices for farming	Low cost is implemented	High	Sprint-2
Customer Care Executive	User Problems	USN-13	As a user, I need my application to work on most of the mobiles	To ensure the usage is efficient and user-friendly	High	Sprint-3

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
		USN-14	As a user, I don't how to use the application	Manual guide will be there	High	Sprint-3
		USN-15	As a user, I am facing issue in the application	Query form will be there	High	Sprint-3
Administrator	Particular Access	USN-16	As an admin, I give access only to authorised person	Only authorised person can access the account	High	Sprint-3
	Query Clarification	USN-17	As an admin, I give solutions to their queries	I can able to solve the queries	High	Sprint-3
	Connection with IOT devices	USN-18	As an admin, I ensure the correct working of the devices. If any problem arises it will be shared to user	To ensure it works in a correct way	Medium	Sprint-4
Customer (Mobile User)	Accessing IOT Devices	USN-19	As a user, I need events for better productivity	I can make a better productivity	Low	Sprint-4
		USN-20	As a user, I need a more info about plants inside the application	To gather information about plants	Medium	Sprint-4
		USN-21	As a user, I need to control my devices	Commands for devices	High	Sprint-4