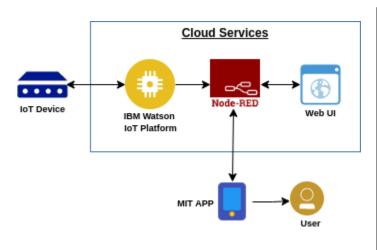## Project Design Phase-II
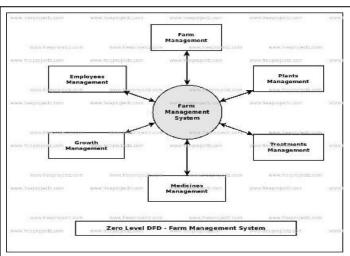## Data Flow Diagram & User Stories

Date	20 November 2022
Team ID	PNT2022TMID43644
Project Name	Project – 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 :

1. *The different soil parameters temperature, soil moistures and then humidity are sensed using different sensors and obtained value is stored in the ibm cloud.*

2. *Aurdino UNO is used as a processing Unit that process the data obtained from the sensors and whether data from the weather API.*

3. *NODE-RED is used as a programming tool to write the hardware, software and APIs. The MQTT protocol is followed for the communication.*

4. *All the collected data are provided to the user through a mobile application that was developed using the MIT app inventor. The user could make a decision through an app, weather to waterthe crop or not depending upon the sensor values. By using the app they can remotely operateto the motor switch.*

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 byentering my email, password, and confirmingmy password.	I can access my account /dashboard	High	Sprint-1
	Permission	USN-2	As a user, I will receive confirmation emailonce I have registered for the application	I can receive confirmationemail & click confirm	High	Sprint-2
Customer (Webuser)	Login/App	USN-3	As a user, I can log into the application by entering email & password	I can register & access thedashboard with Login	High	Sprint-3
	Check whether details	USN-4	As a user, I can register for the applicationthrough Mobile application	Temperature and Humidity details	High	Sprint-4
Customer CareExecutive		USN-5	To make the user to interact with the software	Data base to stored in cloud services	High	Sprint-5
	Log out	USN-6	Exit	Sign out	High	Sprint-6