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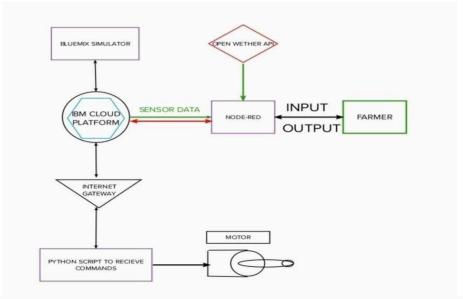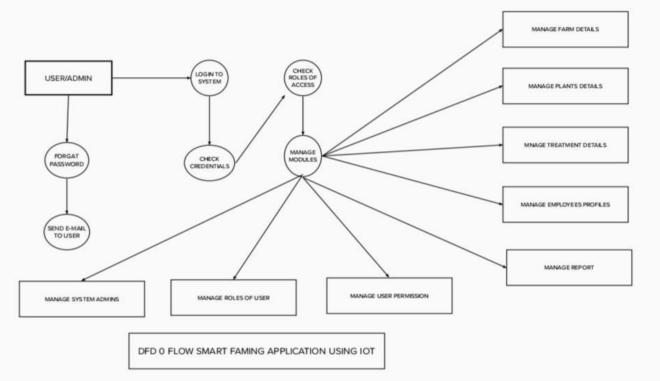## Data Flow Diagram &
User Stories

Date	12 October 2022
Team ID	PNT2022TMID06965
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

DFD 0 FLOW SMART FAMING APPLICATION USING IOT

and leaves the system, what changes the information, and where data is stored.

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

- Arduino UNO is used as a processing Unit that process the data obtained from the sensors and whether data from the weather API.

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

- All the collected data are provided to the user through a mobile application that was developed using the MIT app inventor. The user could plan through an app, weather to water the crop or not depending upon the sensor values. Byusing the app they can remotely operate to the motor switch.

User Stories

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

User Type	Functional Requirem ent(Epic)	User Story Number	User Story / Task	Acceptance criteria	Priorit y	Release
Customer (Mobile user)	Registratio n	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 emailonce I have registered for the application	I can receive confirmationemail & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the applicationthrough Facebook	I can register & access the dashboard with FacebookLogin	Low	Sprint-2
		USN-4	As a user, I can register for the applicationthrough Gmail		Mediu m	Sprint-1
	Login	USN-5	As a user, I can log into the application byentering email & password		High	Sprint-1
	Dashboard					
Customer (Web user)						

Customer Care Executive					
Administrator					