Project Design Phase-II
Data Flow Diagram & User Stories

Date	08NOVEMBER2022
Team ID	PNT2022TMID52417
Project Name	IOT-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.

USER/ADMIN

LOGIN TO SYSTEM

CHECK ROLES OF ACCESS

FORGAT PASSWORD

CHECK CREDENTIALS

MANAGE MODULES

SEND E-MAIL TO USER

MANAGE FARM DETAILS

MANAGE PLANTS DETAILS

MNAGE TREATMENT DETAILS

MANAGE EMPLOYEES PROFILES

MANAGE REPORT

MANAGE SYSTEM ADMINS

MANAGE ROLES OF USER

MANAGE USER PERMISSION
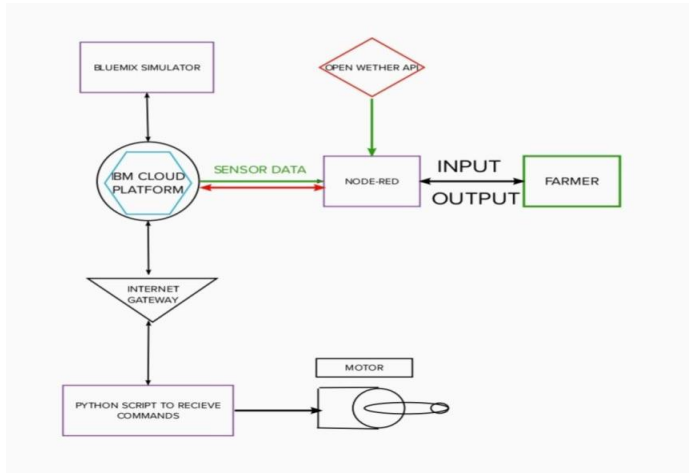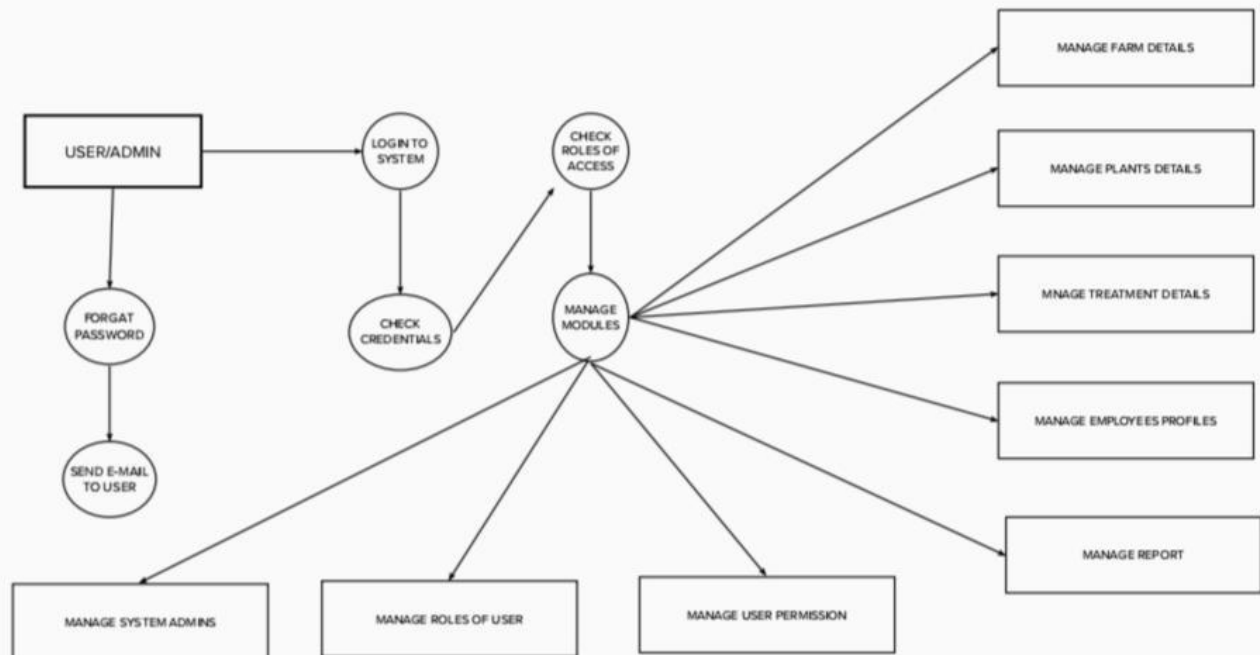
DFD 0 FLOW SMART FAMING APPLICATION USING IOT

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

- *Aurdino 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 MQTT protocol 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 make a decision through an app, weather to water the crop or not depending upon the sensor values. By using 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 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-2
		USN-4	As a user, I can register for the application through Gmail		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sprint-1
	Dashboard					
Customer (Web user)		USN-6	As a User can view the dashboard ,and this dashboard include the check roles of access and then move to the manage modules.	I can view the dashboard in this smart farming application system.	Medium	
Customer Care Executive		USN-7				
Administrator			As a user once view the manage modules this describes the Manage system Admins and Manage Roles of User and etc..			