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

Date	03 October 2022
Team ID	PNT2022TMID32919
Project Name	Project - 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.

DFD 0 FLOW SMART FAMING APPLICATION USING IOT
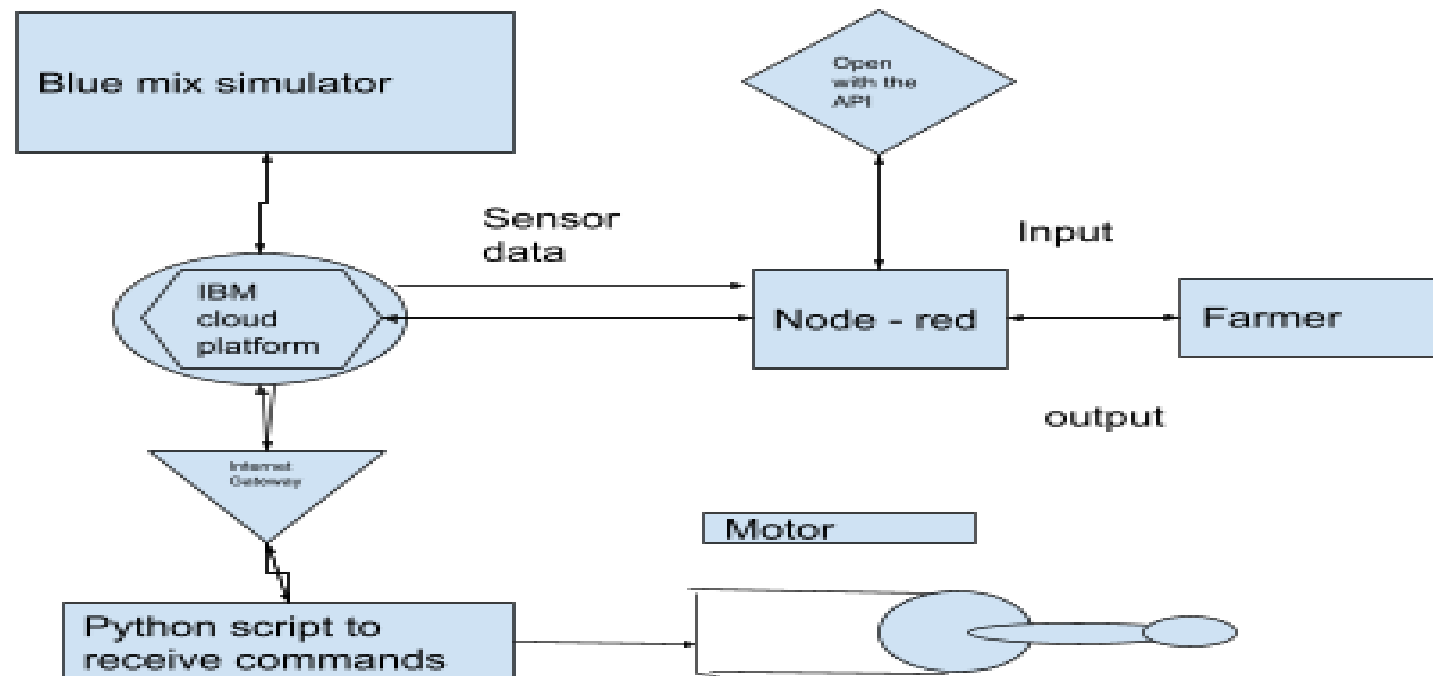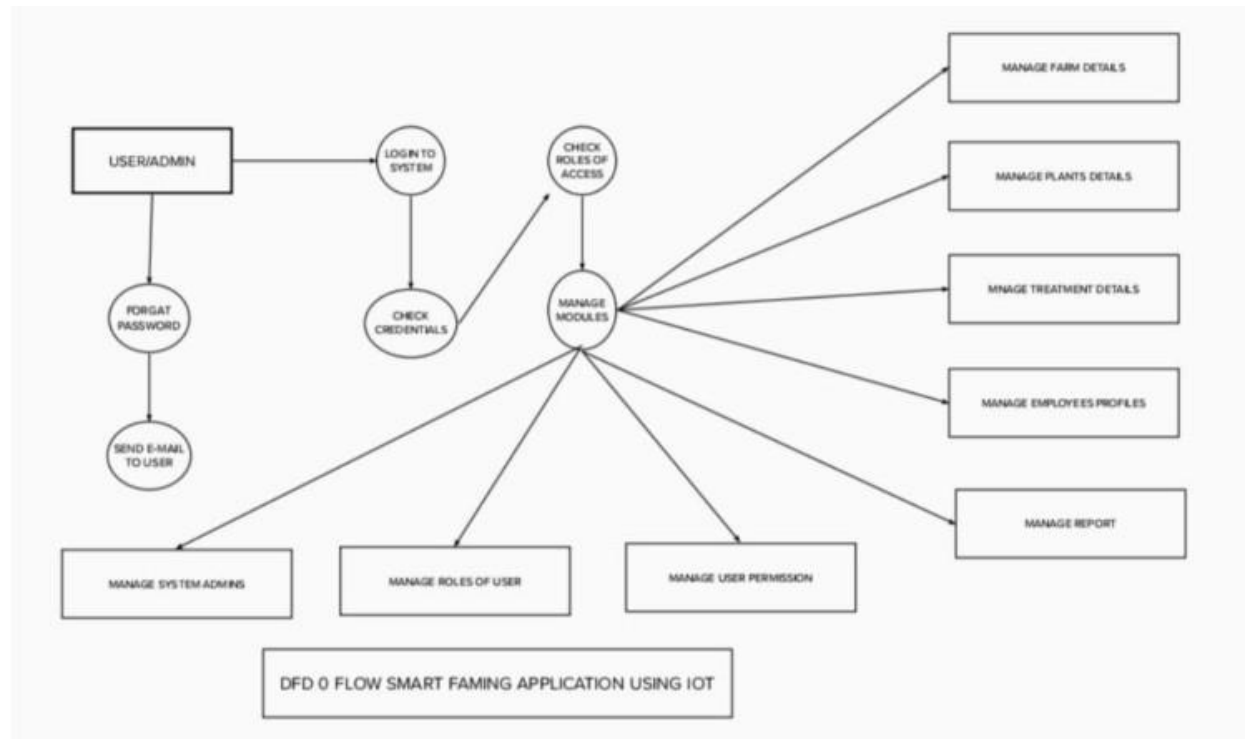
> Different sensors are used to measure the various soil factors, such as temperature, moisture content, and humidity, and the results are then saved in the IBM cloud.

> The Ardiuno UNO is utilised as a processing component to process the sensor data as well as weather API data.

> NODE-RED is a programming language that is used to create the hardware, software, and APIs. The communication adheres to the MQTT protocol.

> A mobile application created with MIT App Inventor is used to deliver all the collected data to the Jser. Through an app, the user might decide. Depending on the sensor results, decide whether to irrigate the crop or not. They can remotely control the motor switch by utilising the app.

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..			