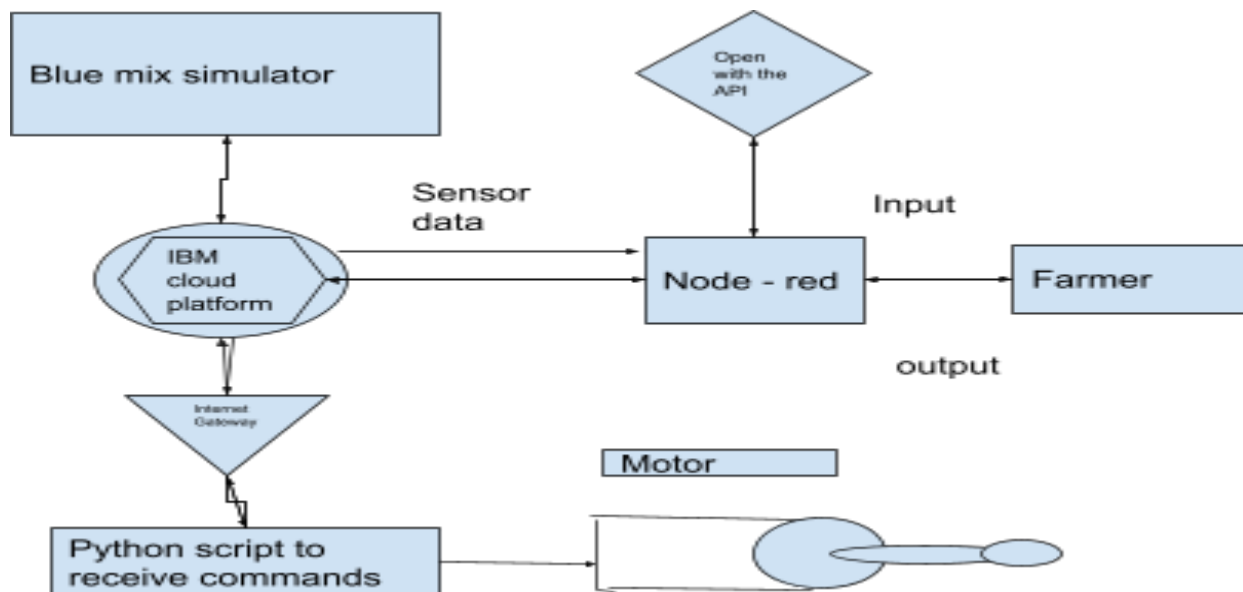


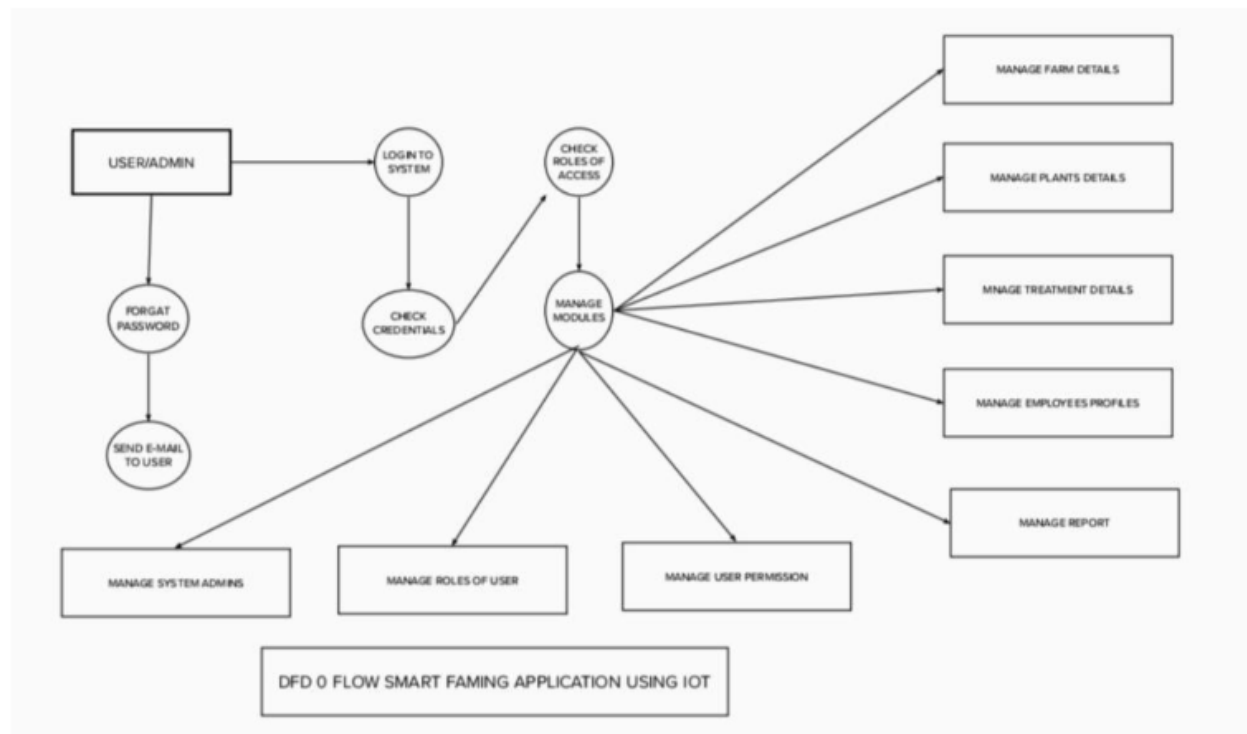
Project Design Phase - II
Data Flow Diagram & User Stories

Date	14 October 2022
Team ID	PNT2022TMID15443
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 flow with the amount of data and system requirements graphically represented it and also shows the data entered and leaves the system which is stored.





- The different soil parameters like temperature, soil moistures and then humidity are sensed using different sensors and obtained value is stored in the ibm cloud.
- Ardiuno 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 API's. The MQTT protocol is followed for the communication.
- All the collected data are the provided to the jser 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 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..			