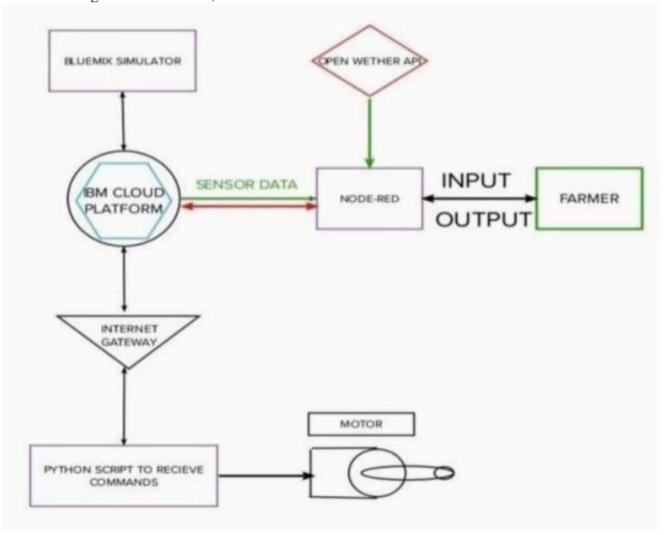
## **Project Design Phase-II**

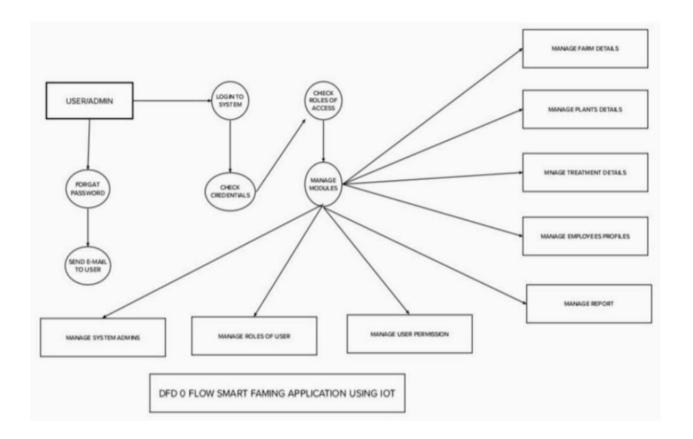
## **DataFlow Diagram**

Date	29 October 2022
TeamID	PNT2022TMID08447
ProjectName	SmartFarmer-IOTEnabledSmartFarmingApplication
Maximummarks	4Marks

## **DataFlowDiagrams:**

A Data Flow Diagram (DFD) is a traditional visual representation of theinformation 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, whatchangesthe information, and wheredata is stored.





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

## 3. NODE-

REDisused as a programming to oltowrite 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 wasdeveloped 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.