Project Design Phase-II
Data Flow Diagram & User Stories

| Date	15 October 2022
Team ID	PNT2022TMID33523
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 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.

Example: (Simplified)
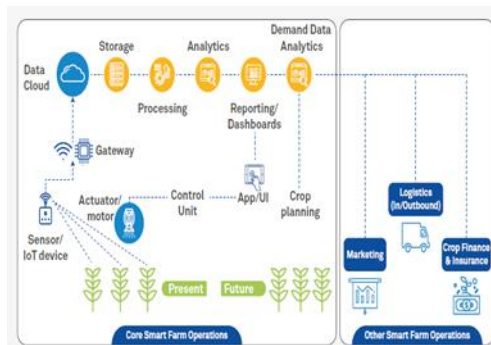
1. **Sensors** provide key information required in precision agriculture: pH and soil nutrients level.

2. **App** provides the best information on Crop Production, smart farming with agriculture and allied devices.

Data Flow Diagram
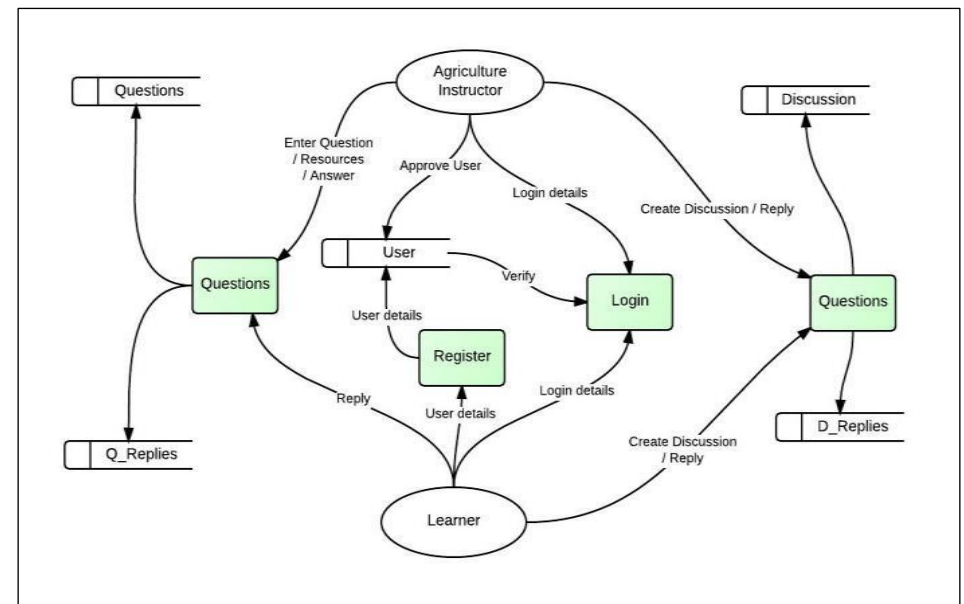
3.**Aurdino UNO** is used as a processing Unit that process the data obtained from the sensors and whether data from the weather API.

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

5.**Smart farming** reduces the ecological footprint of farming. It allows famer to constantly monitor the field and livestock conditions by the use of IoT

  Sensors, software, and data and enables them to take informed decisions regarding the same.

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	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	Sprint-2
Customer (Web user)		USN-7	As a user can view the list of web pages from which they can select the web page they want	I can see the list of web pages	Medium	Sprint-2
Customer Care Executive			These professional performs a number of duties including responding to the customer questions and assisting with their questions		High	Sprint-1
Administrator			As a user once view the manage modules this describes the Manage system Admins and Manage Roles of User and etc..		High	Sprint-1