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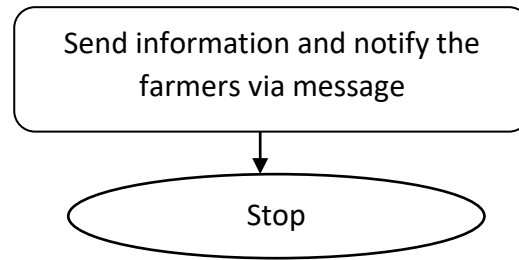# Data Flow Diagram & User Stories

Date	30 October 2022
Team ID	**PNT2022TMID54503**
Project Name	Project – 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.
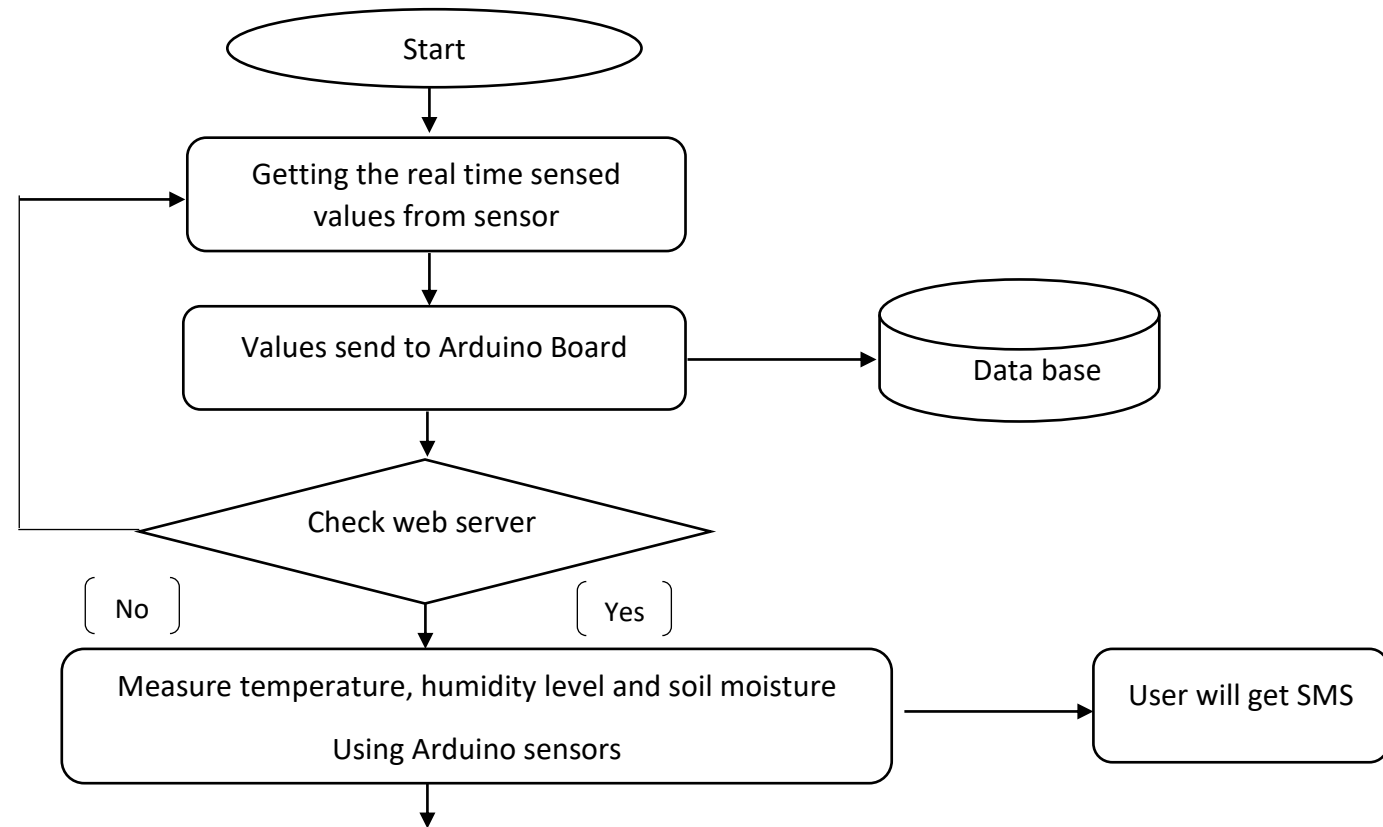
```
                        ┌──────────┐
                        │  Start   │
                        └──────────┘
                             │
                             ▼
                 ┌───────────────────────────┐
              ┌─▶│  Getting the real time     │
              │  │  sensed values from sensor │
              │  └───────────────────────────┘
              │              │
              │              ▼
              │  ┌───────────────────────────┐       ┌──────────┐
              │  │  Values send to Arduino    │──────▶│ Data base│
              │  │  Board                     │       └──────────┘
              │  └───────────────────────────┘
              │              │
              │              ▼
              │          ╱─────────╲
              └─────────◀  Check web  ▶
                No       ╲  server   ╱       Yes
                          ╲─────────╱
                             │
                             ▼
        ┌─────────────────────────────────────────┐      ┌──────────────────┐
        │ Measure temperature, humidity level and  │─────▶│ User will get SMS│
        │ soil moisture                            │      └──────────────────┘
        │ Using Arduino sensors                    │
        └─────────────────────────────────────────┘
                             │
                             ▼
```

```
┌─────────────────────────────┐
│  Send information and notify the │
│     farmers via message         │
└─────────────────────────────┘
                │
                ▼
        ╭───────────────╮
        │     Stop      │
        ╰───────────────╯
```

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority

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
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
		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
		USN-3	As a user, I can register for the application through twitter	I can register & access the dashboard with twit Login	Low
		USN-4	As a user, I can register for the application through Gmail	I can register through the mail	Medium
	Login	USN-5	As a user, I can log into the application by entering email & password	I can receive login credentials	High
	Interface	USN-6	As a user, the interface should be user-friendly manner	I can able to access easily	Medium
Customer (Web user)	Dashboard	WUSN-1	As a web user, I can access the specific info (pH value, temp, humidity, quality)	I can able to know the quality of the water.	High
Customer Care Executive	View manner	CCE-1	As a customer care, I can view data in visual representation manner(graph)	I can easily understand by visuals	High
	Taste	CCE-2	As a customer care, I can able to view the quality(salty) of the water	I can easily know whether it is salty or not	High
	Color visibility	CCE-3	As a customer care, I can able predict the water color	I can easily know the condition by color	High
Administrator	Risk tolerant	ADMIN-1	An administrator who Is handling the system should update and take care of the application	Admin should monitor the records properly.	High