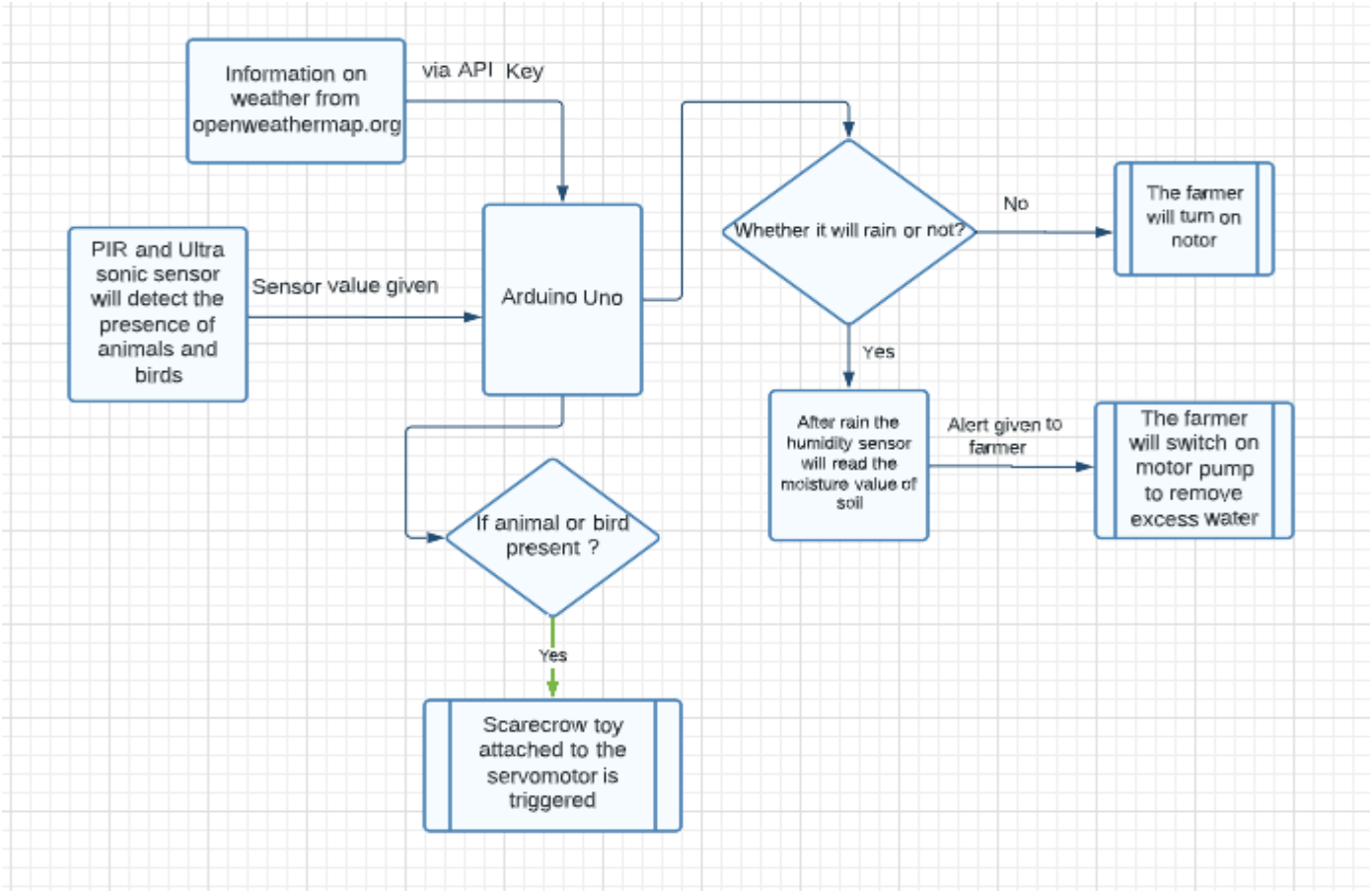
Project Design Phase-II
Data Flow Diagram & User Stories

Date	03 October 2022
Team ID	PNT2022TMID52016
Project Name	IOT Based Smart Crop Protection System for Agriculture
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.


Information on weather from openweathermap.org
via API Key
PIR and Ultra sonic sensor will detect the presence of animals and birds
Sensor value given
Arduino Uno
Whether it will rain or not?
No
The farmer will turn on notor
Yes
After rain the humidity sensor will read the moisture value of soil
Alert given to farmer
The farmer will switch on motor pump to remove excess water
If animal or bird present ?
Yes
Scarecrow toy attached to the servomotor is triggered

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 Gmail	I can receive verification code and invitation	Medium	Sprint-1
Administrator	Login	USN-4	As a user, I can log into the application by entering email & password	I can login to my account	High	Sprint-1
Weather	Checking	USN-5	Weather forecast for that day can be seen.	I am getting notified about the weather changes	High	Sprint-2
Moisture level	Checking	USN-6	Humidity sensor value can be seen.	I can view the data given by the device	High	Sprint-2
Control Pump	Controlling	USN-7	It is used to control the motor pump.	I can on and off the motor via mobile.	High	Sprint-3
Motion Detection	Detecting	USN-8	The presence of animals and birds in the field is detected.	I can see the sensor values in mobile	High	Sprint-3
Toy Triggering	Triggering	USN-9	Upon the presence of animal or bird , the toy at that spot will be triggered	I can trigger the toy via mobile	High	Sprint-4