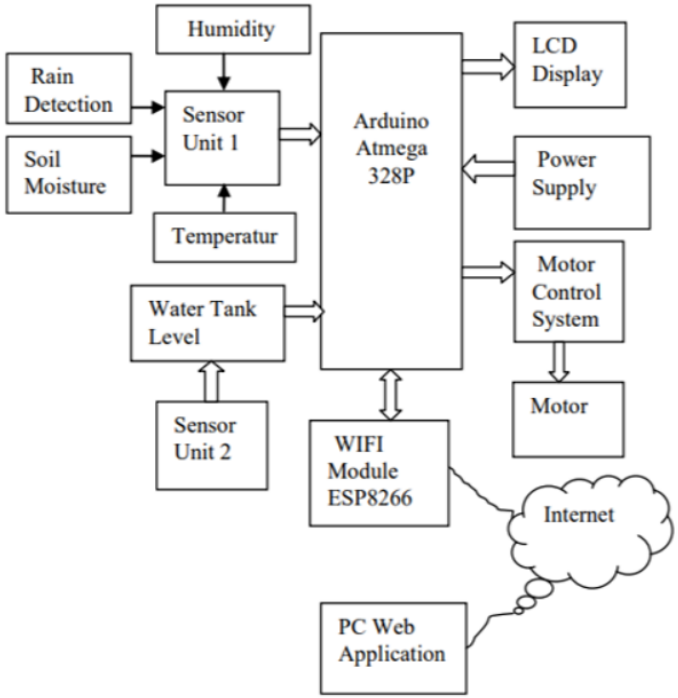
PROJECT DESIGN PHASE-II
DATA FLOW DIAGRAM & USER STORIES

Date	16 October 2022
Team ID	PNT2022TMID29654
Project Name	IOT Based Smart Crop Protection System For Agriculture
Maximum Marks	4 Marks

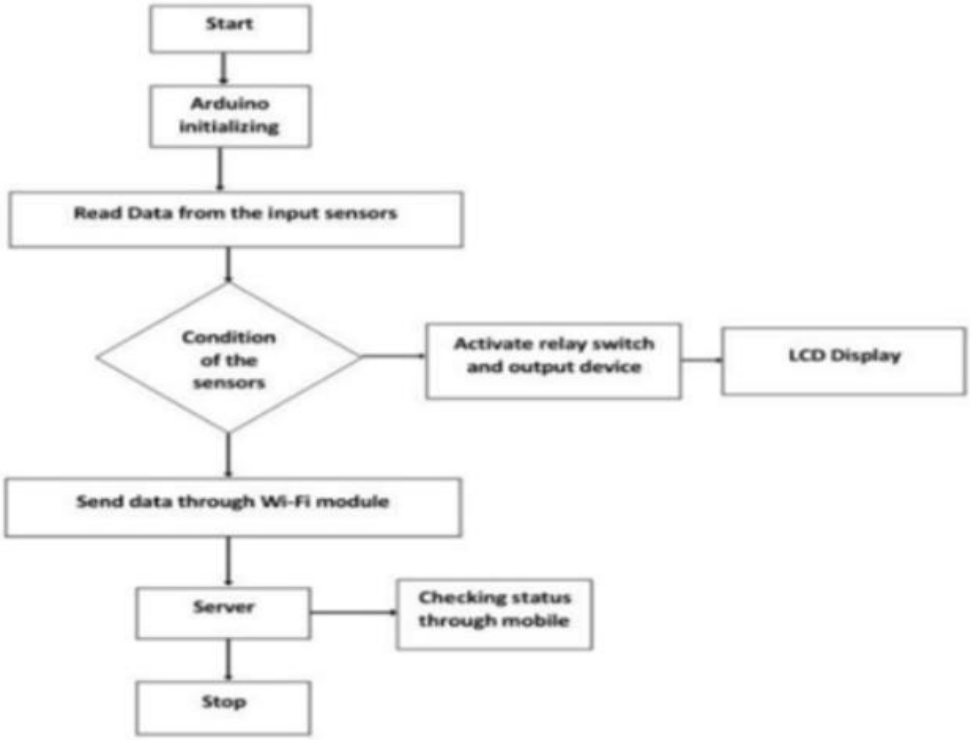
Data Flow Diagrams:



User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Farmer (In field)	Implementation	USN-1	Using Arduino (Microcontroller) to get input signals from sensors (motion detection sensor, temperature sensor, soil moisture sensor)	It can be accessed by them from their home and also by giving power supply to the components.	High	Sprint
		USN-2	Motion Detection sensor are used to detect the motion of the animals and birds as well as unknown persons in the field, if it detects it makes an Alarm.	Controlled by Arduino	High	Sprint
		USN-3	Soil Monitoring sensor is used to measure the humidity of the soil in the field and sprinkle water according to the soil moisture.	Controlled by Arduino	High	Sprint
		USN-4	Temperature Sensor is used to monitor the weather condition	Controlled by Arduino	High	Sprint
		USN-5	According to the soil moisture level motor gets on and off and also sprinklers will spray the water according to it. And it also controlled by mobile app.	Power supply is importance .it can be given by them from their home	High	Sprint
Farmer (mobile user)	Registration	USN-6	As a farmer he can register for the application by entering my email, password and confirming my password	It can be accessed from account/dashboard	High	Sprint
	Login	USN-7	As a user, he will receive confirmation email once he has registered for the application	They can receive confirmation email & click confirmation	High	Sprint
	Login Credential	USN-8	As a user, he can log into the application by entering email & password	It is ready to use the application	High	Sprint
	Using Application	USN-9	As a user, now he is ready to use the application	They can now operate the motor by ON/OFF the motor. They can also know the temperature and humidity level of the crops	High	Sprint

Flow chart:


Start
Arduino initializing
Read Data from the input sensors
Condition of the sensors
Activate relay switch and output device
LCD Display
Send data through Wi-Fi module
Server
Checking status through mobile
Stop