

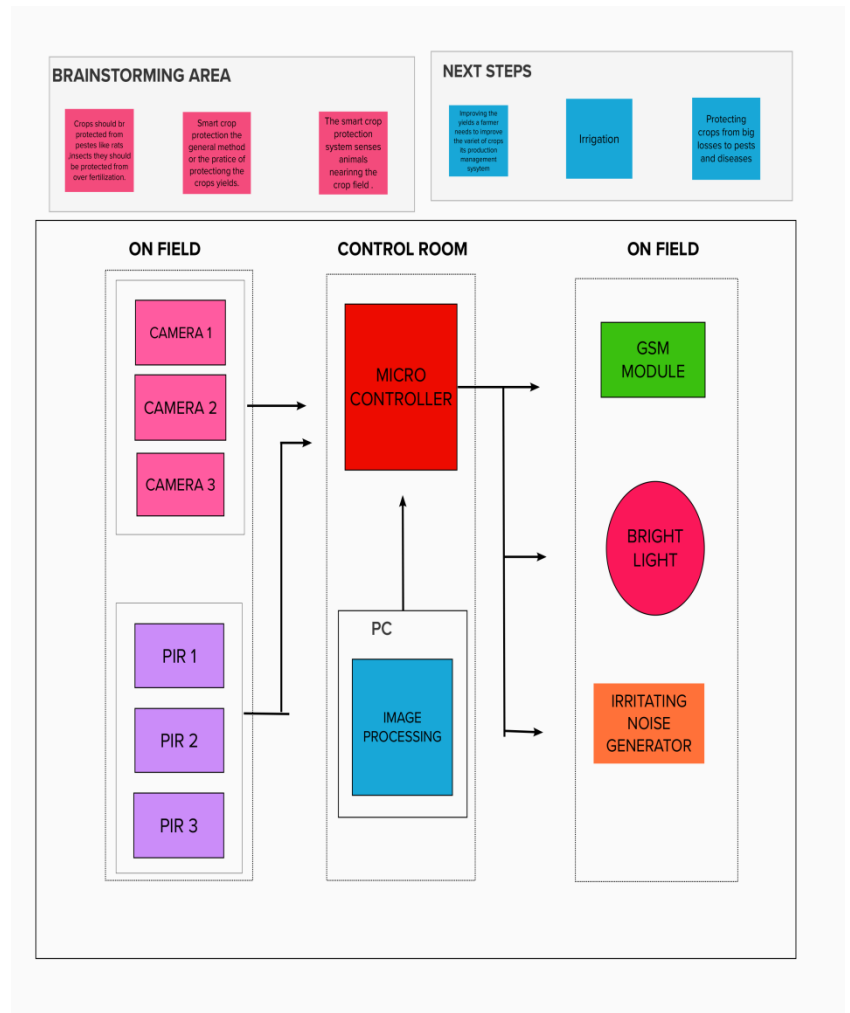
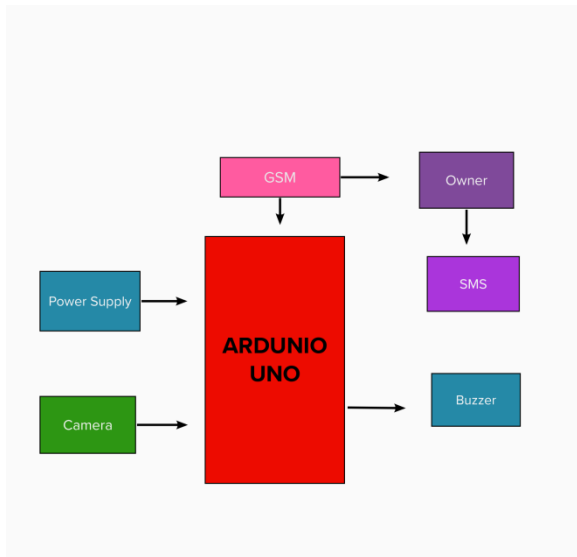
PROJECT DESIGN PHASE-II

DATA FLOW DIAGRAMS AND USER STORIES

TEAM ID:PNT2022TMID39047

Team ID	PNT2022TMID39047
Project Name	IOT based Smart Crop Protection System for Agriculture
Maximum Marks	4 Marks

DATA FLOW DIAGRAM:



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Simplified Diagram:

- ❖ This is an Arduino Uno based framework utilizing microcontroller.
- ❖ This framework utilizes a PIR sensor to identify intruders close to the field and additional to it a temperature and humidity sensor to maintain a soil moisture.
- ❖ When animal and birds approach close to the PIR(passive infrared Sensor), it detects the movement birds or animals
- ❖ After getting the initial input signal from the warm body, it is passed for further processing, then it will be passed one to the microcontroller.
- ❖ Then the system will be activated, immediately the buzzer goes on and simultaneously it sends a SMS to the user.
- ❖ Microcontroller (Arduino Uno) is used for reading the inputs from PIR .
- ❖ The temperature sensor used to maintain a moisture of soil,it can help to maintain a water quantity in land.
- ❖ The GSM module is used for sending SMS to user.

User Stories:

User type	Functional Requirement	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
User	Data collecting	USN-1	Smart farming based IOT	Sensing of Agriculture data and storing.	High	Sprint-4
		USN-2	As an user, I will inform the farmer to protect the crops.	I can inform the farmer.	Medium	Sprint-2
		USN-3	Extract data from source.	Management of data through expert and investigation method	High	Sprint-2
User 2	Login	USN-4	As an co-user, I can send the alert message to the farmers.	I can alert farmers.	High	Sprint-1
Farmer	Login	USN-5	As a farmer, I will follow the route to the crop which can avoid are detect animal intrusion.	I can reach the crops.	High	Sprint-2

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Crop Protector		USN-6	A an crop protector.	In can protect the crop.	Medium	Sprint-2
Farmer	Login	USN-7	As a supervisor,I can Supervise the crop and ensure the hygiene process.	I can manage all these process going good.	High	Sprint-1
Crop yielder	Register	USN-8	As a crop yielder,I can yield more crop.	I can register smart crop.	Medium	Sprint-3
Crop Monitor	Check	USN-9	As a crop monitor,I check the quality of IOTdevice's quality.	I can check the IOT device.	Medium	Sprint-3