

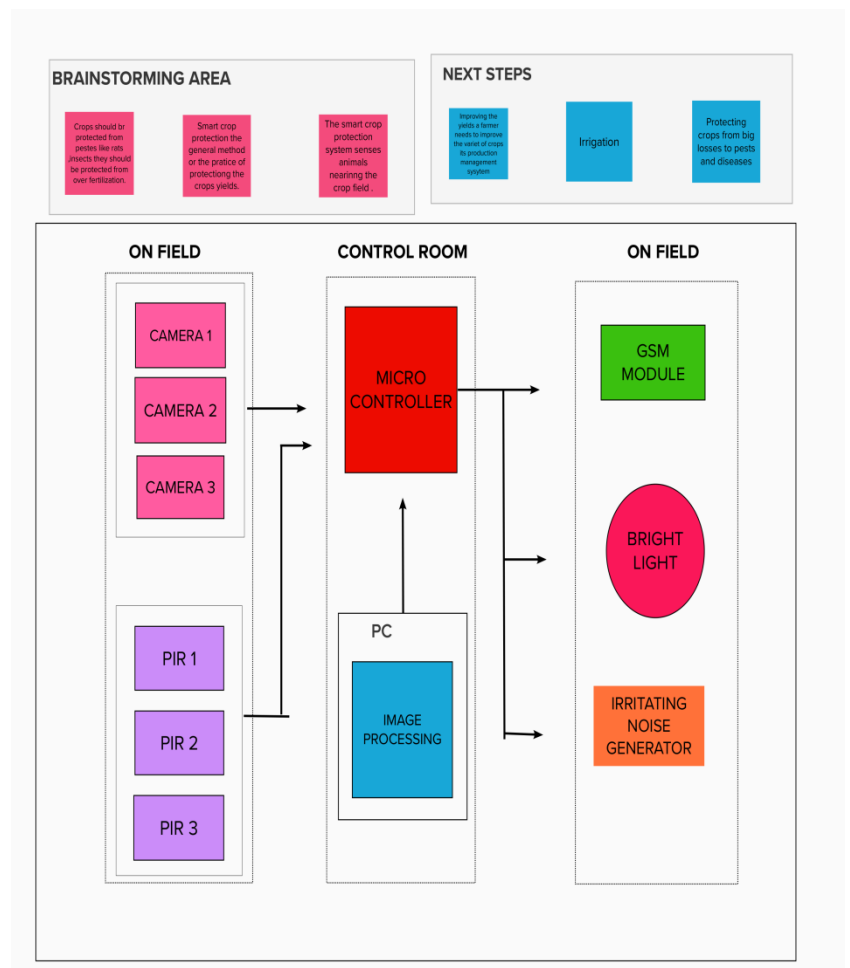
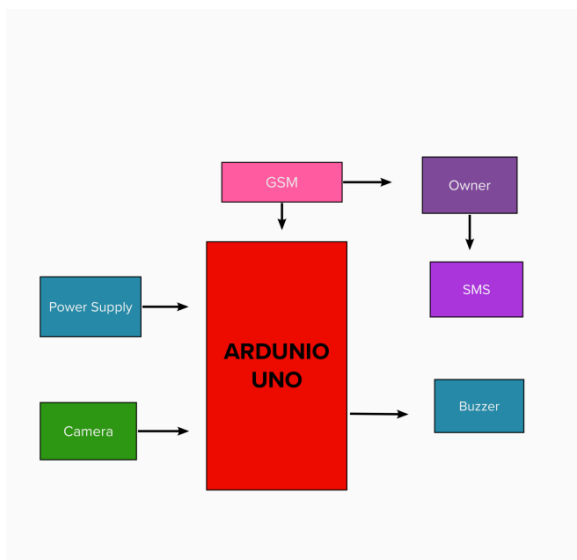
PROJECT DESIGN PHASE-II

DATA FLOW DIAGRAMS AND USER STORIES

TEAM ID:PNT2022TMID17561

Date	15 October 2022
Team ID	PNT2022TMID17561
Project Name	IOT based Smart Crop Protection System for Agriculture
Maximum Marks	4 Marks

DATA FLOW DIAGRAM:



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Simplified Diagram:

- ❖ This framework runs on an Arduino Uno and makes use of a microcontroller.
- ❖ This framework makes use of a PIR sensor to detect intruders close to the field and a temperature and humidity sensor in addition to that to preserve soil moisture.
- ❖ The PIR (passive infrared sensor) detects the movement of birds or animals when they are close to it.
- ❖ The first input signal from the heated body is sent on for further processing before being sent one at a time to the microcontroller.
- ❖ The system will then be turned on, at which point a buzzer will sound and an SMS will be sent to the user.
- ❖ The inputs from PIR are read using a microcontroller (Arduino Uno).

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
Crop Protector		USN-6	A an crop protector.	In can protect the crop.	Medium	Sprint-2

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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		USN-9	As a crop monitor,I check the quality of IOTdevice's quality.	I can check the IOT device.	Medium	Sprint-3