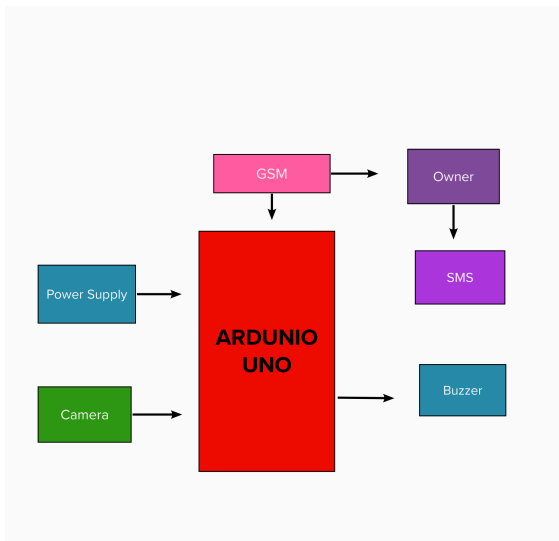


Project Design Phase-II

Data Flow Diagram & User Stories

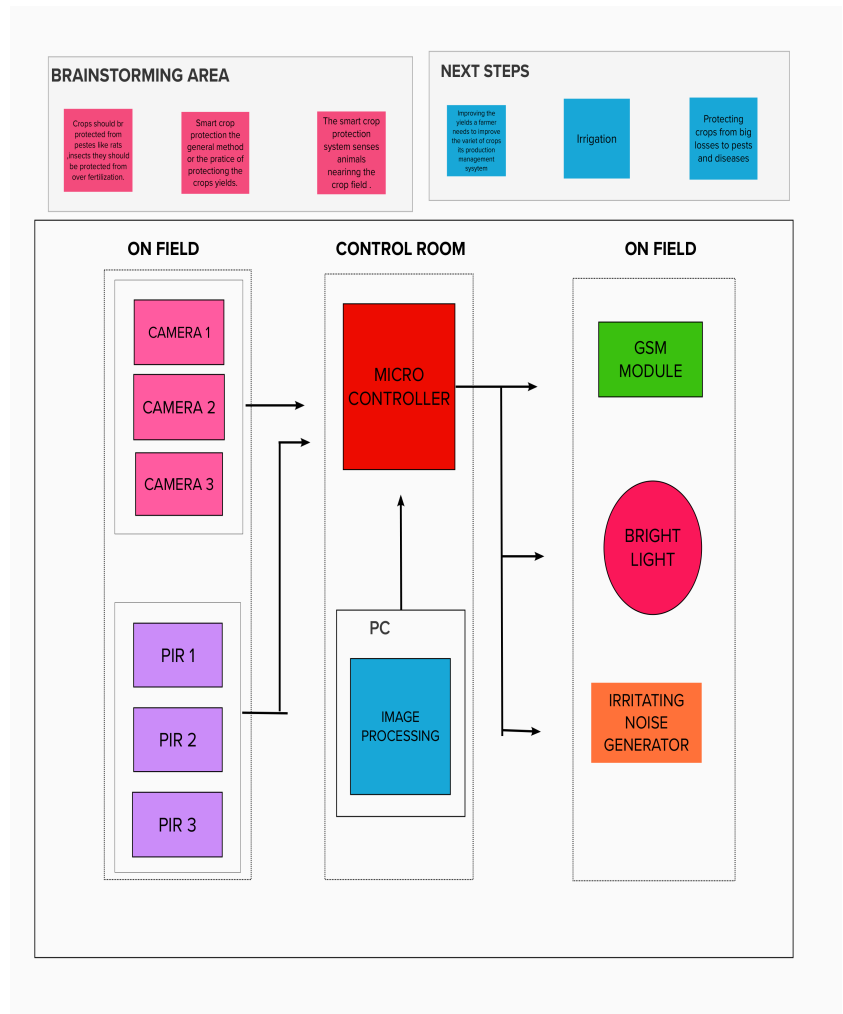
Date	14 October 2022
Team ID	PNT2022TMID46939
Project Name	Smart Crop Protection System for Agriculture
Maximum Marks	4 Marks

Data Flow Diagrams:



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 smoke sensor to identify.
- When animal approach close to the PIR Sensor, it detects the movement.
- 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 on SMS to the owner.



- Microcontroller (Arduino Uno) is used for reading the inputs from PIR, Soil Moisture Sensor and Smoke sensor.
- The GSM module is used for sending SMS to farmer.

User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
User	Login	USN-1	As an user, I can monitor crop production.	I can monitor the system.	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	As an user, I can notice the levels of crop in the field.	I can notice the crop level.	Low	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 and detect animal intrusion.	I can reach the crops.	High	Sprint-2
Crop Protector		USN-6	As an crop protector.	I can protect the crop.	Medium	Sprint-2
Farmer	Login	USN-7	As a farmer, I can supervise the process and ensure the hygieness of farm	I can manage all these process going good.	High	Sprint-1
Crop yielder	Register	USN-8	As a crop yielder , I can yield more crops .	I can register smart crop	Medium	Sprint-3
Crop Monitor		USN-9	As a crop monitor, I check the quality of IoT device's quality.	I can check the IoT device.	Medium	Sprint-3

