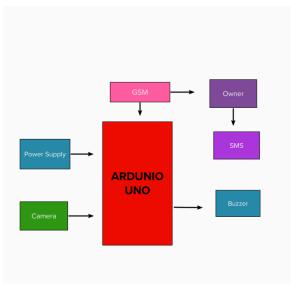
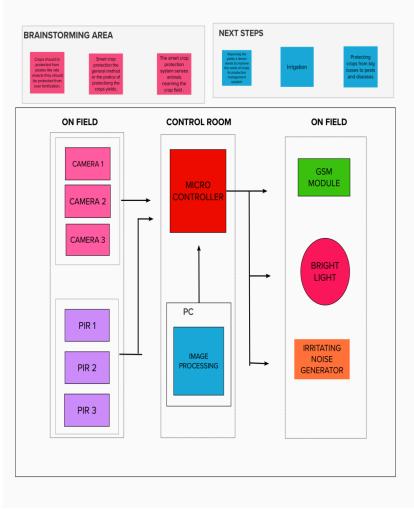
PROJECT DESIGN PHASE-II DATA FLOW DIAGRAMS AND USER STORIES TEAM ID:PNT2022TMID36188

Date	15 October 2022
Team ID	PNT2022TMID36188
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	Functional	User Story	User Story / Task	Acceptance criteria	Priority	Release
type	Requirement	Number				
User	Data collecting	USN-1	Smart farming based	Sensing of Agriculture data and storing.	High	Sprint-4
			IOT			
		USN-2	As an user, I will	I can inform the farmer.	Medium	Sprint-2
			inform the farmer			
			to protect the crops.			
		USN-3	Extract data from	Management of data through	High	Sprint-2
			source.	expert and investigation method		
User 2	Login	USN-4	As an co-user, I	I can alert farmers.	High	Sprint-1
			can send the alert			
			message to the			
			farmers.			
Farmer	Login USI	USN-5	As a farmer, I will	I can reach the crops.	High	Sprint-2
			follow the route to			
			the crop which can			
			avoid are detect			
			animal intrusion.			

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