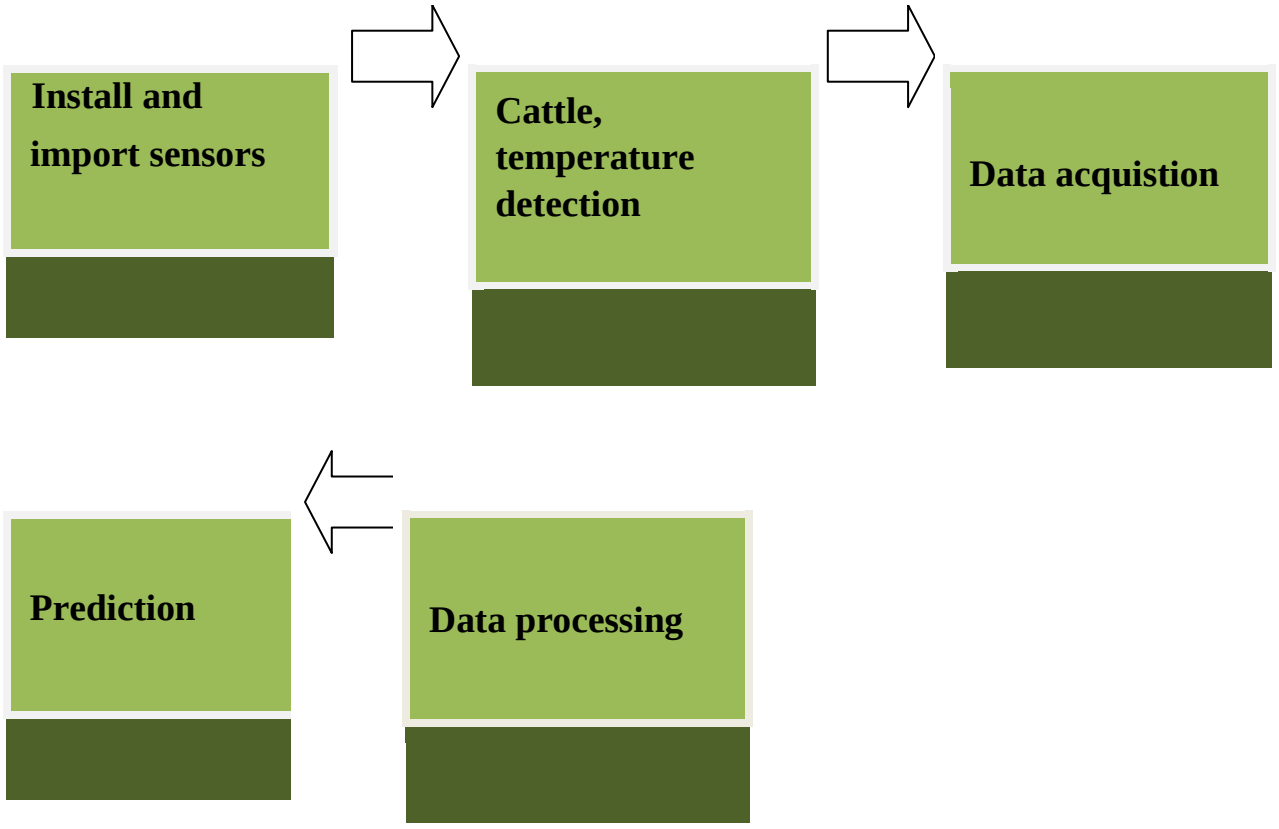
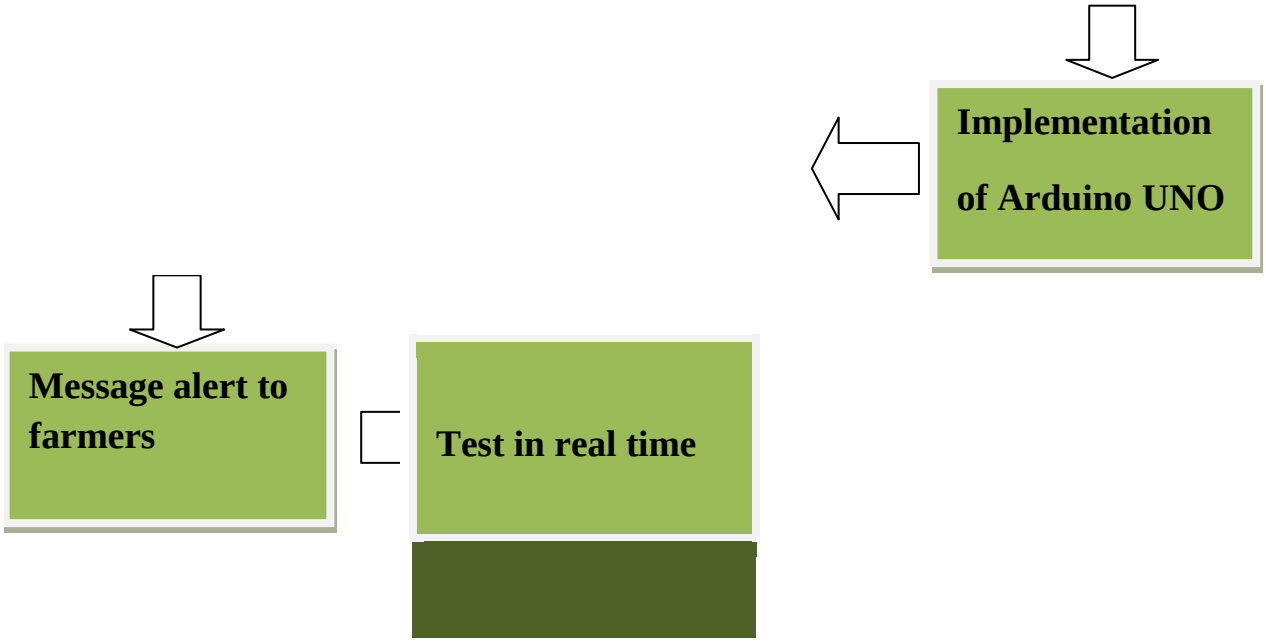
PROJECT DESIGN PHASE-II
Data Flow Diagram & User Stories

Date	03 October 2022
Team ID	PNT2022TMID42167
Project Name	Project - IoT Based Smart Crop Protection System for Agriculture

Data Flow Diagram:





Flow:

- We start collecting data from cloud services and collect a bunch of data from sensors.
- Save data in the form of numpy arrays.
- We then implement arduino UNO with our stored data.
- The number of sensors for the model is determined by us, if we increase the number of sensors, the accuracy increases. But it requires much more time for implementing more sensors.
- Once detection is done, we can use this model for real time cattle detection and simultaneously used to detect water level and temperature in the field.

User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story/Task	Acceptance Criteria	Priority	Release
Developer	System Building	USN-1	Collect dataset	I can collect dataset	High	Sprint-1
		USN-2	Collecting data from sensors	I can collect data from sensors	High	Sprint-1
		USN-3	Implementing arduino UNO from data collection		High	Sprint-2
		USN-4	Message alert to farmers	I can receive message	High	Sprint-3
		USN-5	Farmers identify the problem and resolve it by using mobile application	I can identify the problem and I try to resolve it	medium	Sprint-3
customer (web user)	Adoption	USN-1	Adopting new technology for boosting production	I can adopt new technology	Low	Sprint-1
	Detection	USN-2	Detect the ratio of defected crops on land	I can detect the defected crops	High	Sprint-2