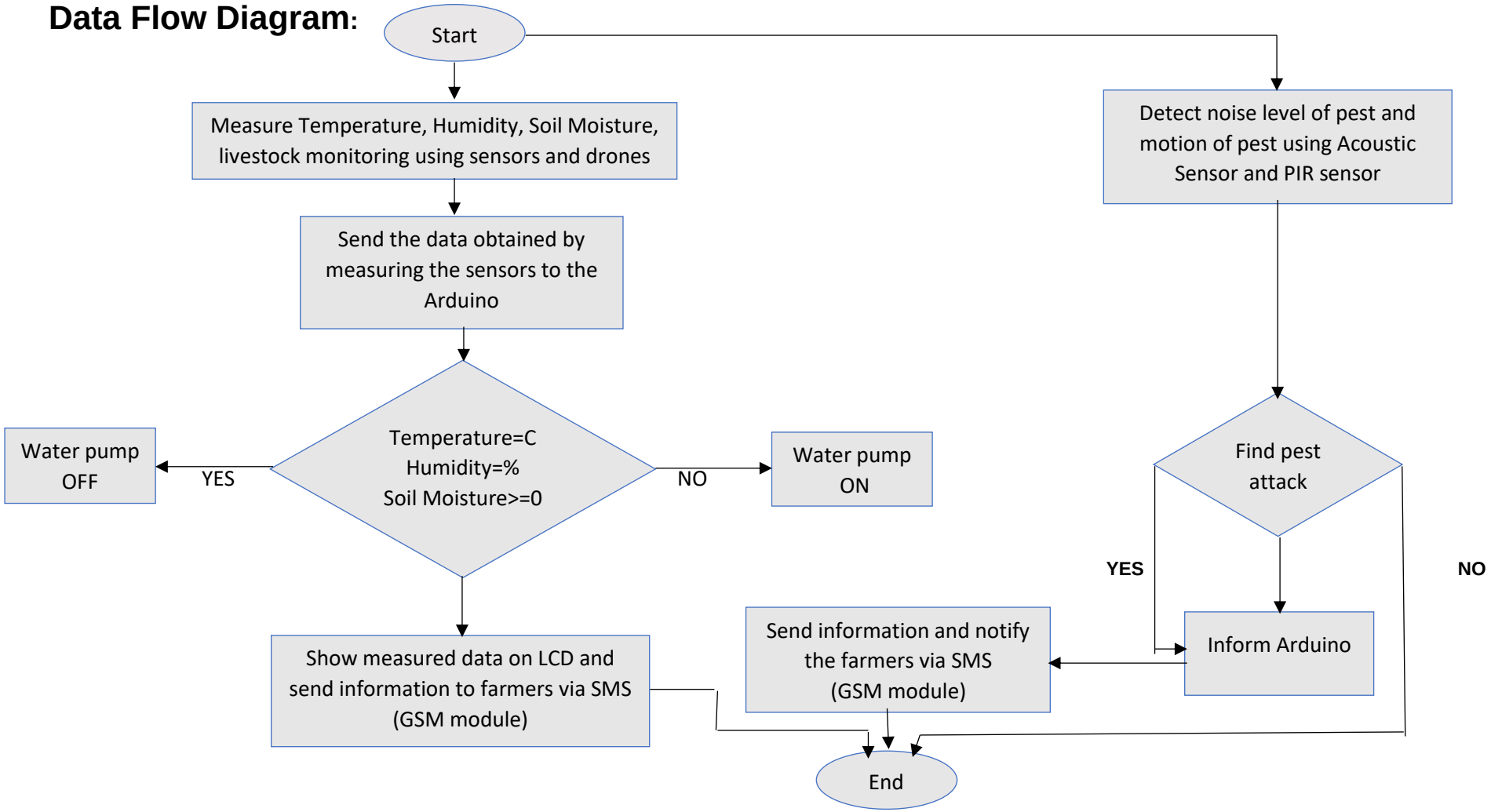
Project Design Phase-II
Data Flow Diagram & User Stories

Date	03 October 2022
Team ID	PNT2022TMID34083
Project Name	Smart Farmer - IoT Enabled Smart Farming Application
Maximum Marks	4 Marks

Data Flow Diagram:



User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Farmer	Soil monitoring	USN-1	User can get maximum yield and reduce the disease in crops which are caused due to problems in soil.	Can protect crop from diseases and can maximize the yield.	High	Sprint-1
Farmer	climate monitoring	USN-2	Help farmers to identify that "what type of climate condition is suited for particular crop".	Farmers get more yield	High	Sprint-2
Farmer	Temperature monitoring	USN-3	It is useful to determine the temperature level thus can provide proper amount of water to crops.	We can prevent crops from dryness.	High	Sprint-1
Farmer	Soil humidity monitoring	USN-4	DHT Sensor for automatically irrigate water based on the Moisture level in the soil.	Can reduce water wastage	High	Sprint-1
Farmer	Pest Detection	USN-5	By a user, I can protect the crops from pest attack by using acoustic and PIR sensors.	Can prevent from crop damage by overcoming the pest attack	Medium	Sprint-2
Farmer	Drones	USN-5	Flyover field locating weeds pathogens and sick animals which enables precise application of inputs	Can collect data about the development of crops and their needs.	Low	Sprint-3
Farmer	Livestock monitoring	USN-5	It help the farmers to keep a check on their farm animals	It helps to increase herd survival and	Low	Sprint-3

			remotely and alter farmers when a cow develops infections.	Milk yield.		
Farmer	GSM module	USN-5	Used to send alert message to farmers.	Farmers can take proper actions to overcome the problem immediately.	High	Sprint-4