

Project Design Phase-II

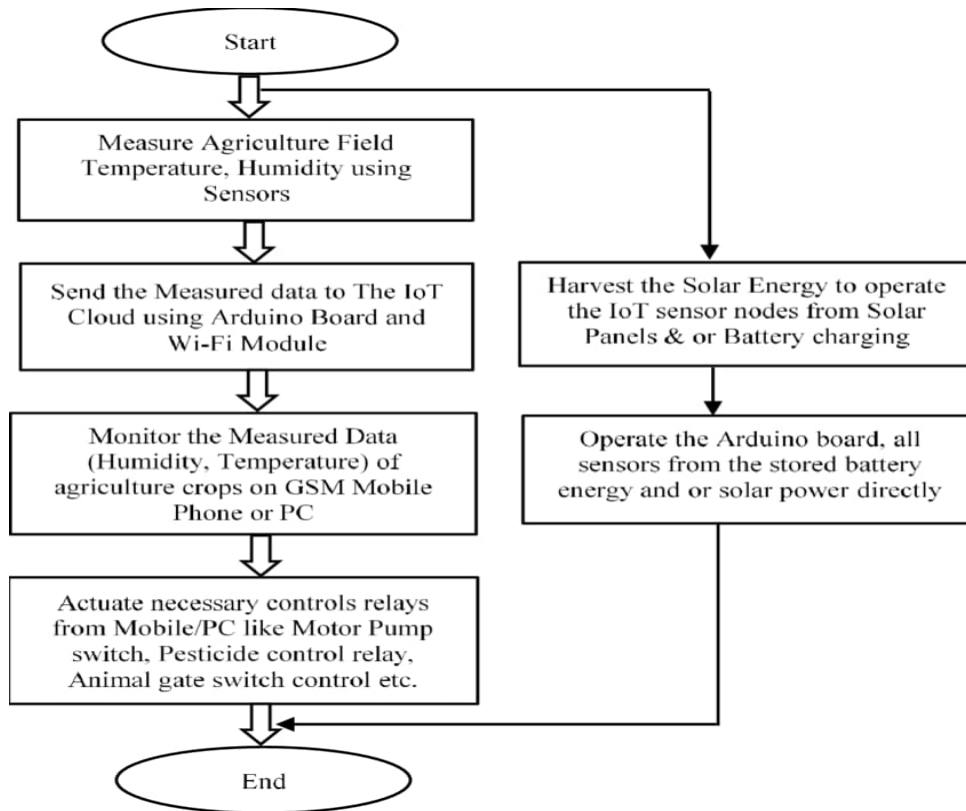
Data Flow Diagram & User Stories

Date	03 October 2022
Team ID	PNT2022TMID34035
Project Name	Smart farming
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

FLOW CHART



User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	RELEASED
Marginal: (Below 1.00 hectare)	Soil scanning	USN-1	It is a tool that provides practical soil information within 10 minutes. The handheld device connects to a smartphone via Bluetooth and generates a report about the soil status and nutrient needs.	I can scanning soil using tools	Low	Sprint-1
Small: (1.00-2.00 hectare.)	watering	USN-2	Smart water technology (SWT) has evolved for proper management and saving of water resources. Smart water system (SWS) uses sensor, information, and communication technology (ICT) to provide real-time monitoring of data such as pressure, water ow, water quality, moisture, etc	I can use smart irrigation technology uses of weather Data or soil moisture	High	Sprint-1
Semi-	lighting	USN-3	If plants do not receive enough light, they will not grow at their	Using LED lights for plants growth	Low	Sprint-2

(Medium: 2.00-4.00 hectare)			maximum rate or reach their maximum potential. In agriculture, the use of artificial lighting seeks to provide a source of light that is similar to sunlight.			
Medium: (4.00-10.00 hectare.)	humidity	USN-4	Smart Humidity Sensor for Agriculture Industry is an IoT based product that enables the farmer to control a farm, nursery, and field-related climatic data through a paired Mobile and Web Application. The sensor provides ambient Humidity, Temperature sensing.	Humidity is allows for healthy plant growth	Medium	Sprint-1
Large: (10.00 hectare and above)	Temperature Management	USN-5	Temperature changes also affect seed germination, leaf development, flowering, harvest, and fruit production (5, 41). However, the effects of temperature on crop development are often implicitly presumed to be associated with air, but not soil temperature.	I can cultivate or irrigation, increasing the soil's ability to absorb radiation	High	Sprint-1