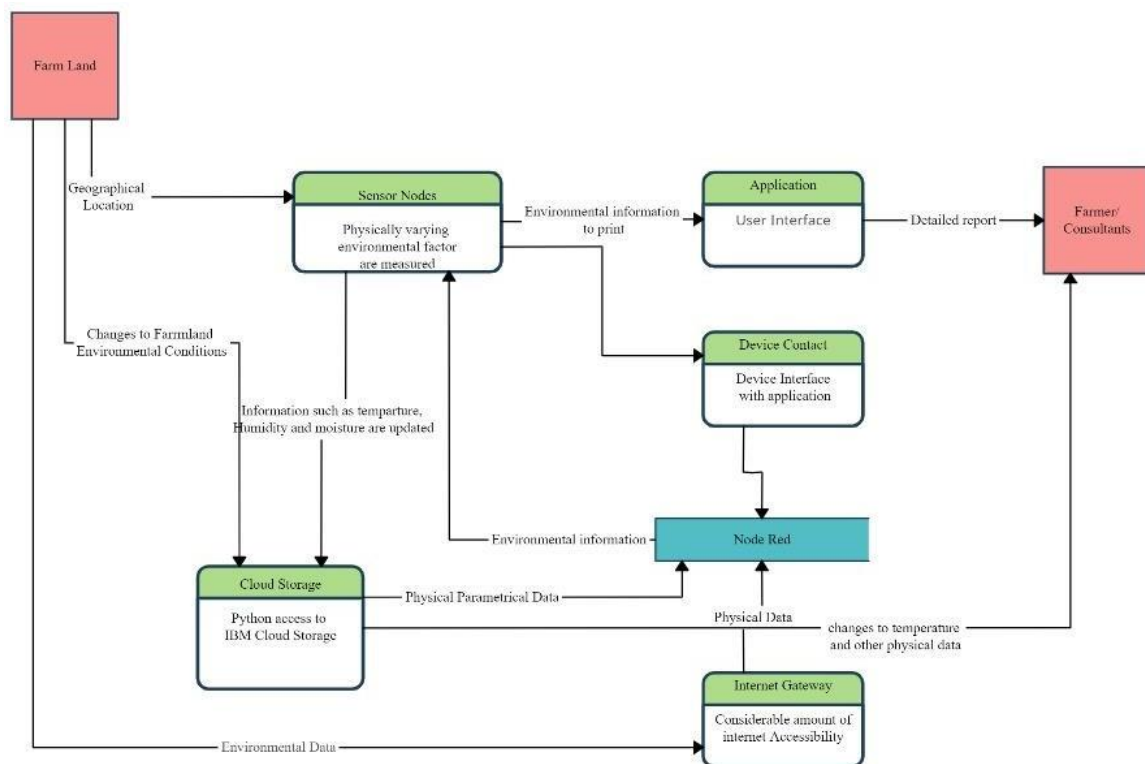


Project Design Phase-II

Data Flow Diagram & User Stories

Date	26 October 2022
Team ID	PNT2022TMID31166
Project Name	Smart Farmer-IOT Enabled Smart Farming Application
Maximum marks	4 Marks

Data Flow Diagrams:



1. The different soil parameters temperature, soil moistures and then humidity are sensed using different sensors and obtained value is stored in the Ibm cloud.
2. Arduino UNO is used as a processing Unit that process the data obtained from the sensors and whether data from the weather API.

3. NODE-RED is used as a programming tool to write the hardware, software and APIs. The MQTT protocol is followed for the communication.
4. All the collected data are provided to the user through a mobile application that was developed using the MIT app inventor. The user could make a decision through an app, weather to water the crop or not depending upon the sensor values. By using the app they can remotely operate to the motor switch.

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	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
Customer (Web user)	Dashboard	USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
	Registration	USN-3	As a user, I can register for the application through Facebook		Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sprint-1
	Dashboard					
Customer (Web user)						
Customer Care Executive	Help	USN-1	As a user, if I have any queries or issues , I can reach out to the Support	I will receive a reply from the support team that	Medium	Sprint-3

			team	my message is accepted and later my queries or issues will be resolved		
Administrator	Management	USN-1	As a user, I need the resource management team to use quality products at the reasonable price	I get a warranty card and details about the product	Medium	Sprint-4
		USN-2	As a user, if I didn't receive a quality product,I want a refund.	I can receive a free service or a change of product	Medium	Sprint-4