

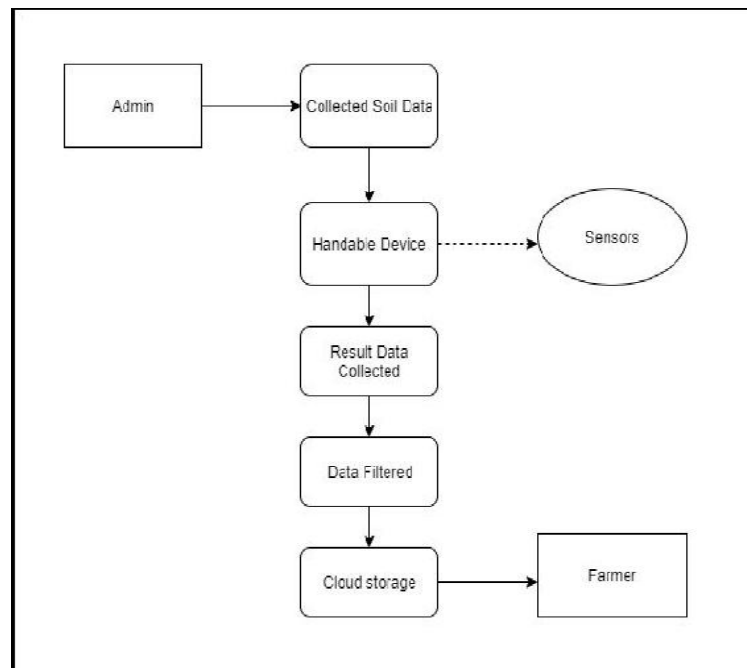
Project Design Phase-II

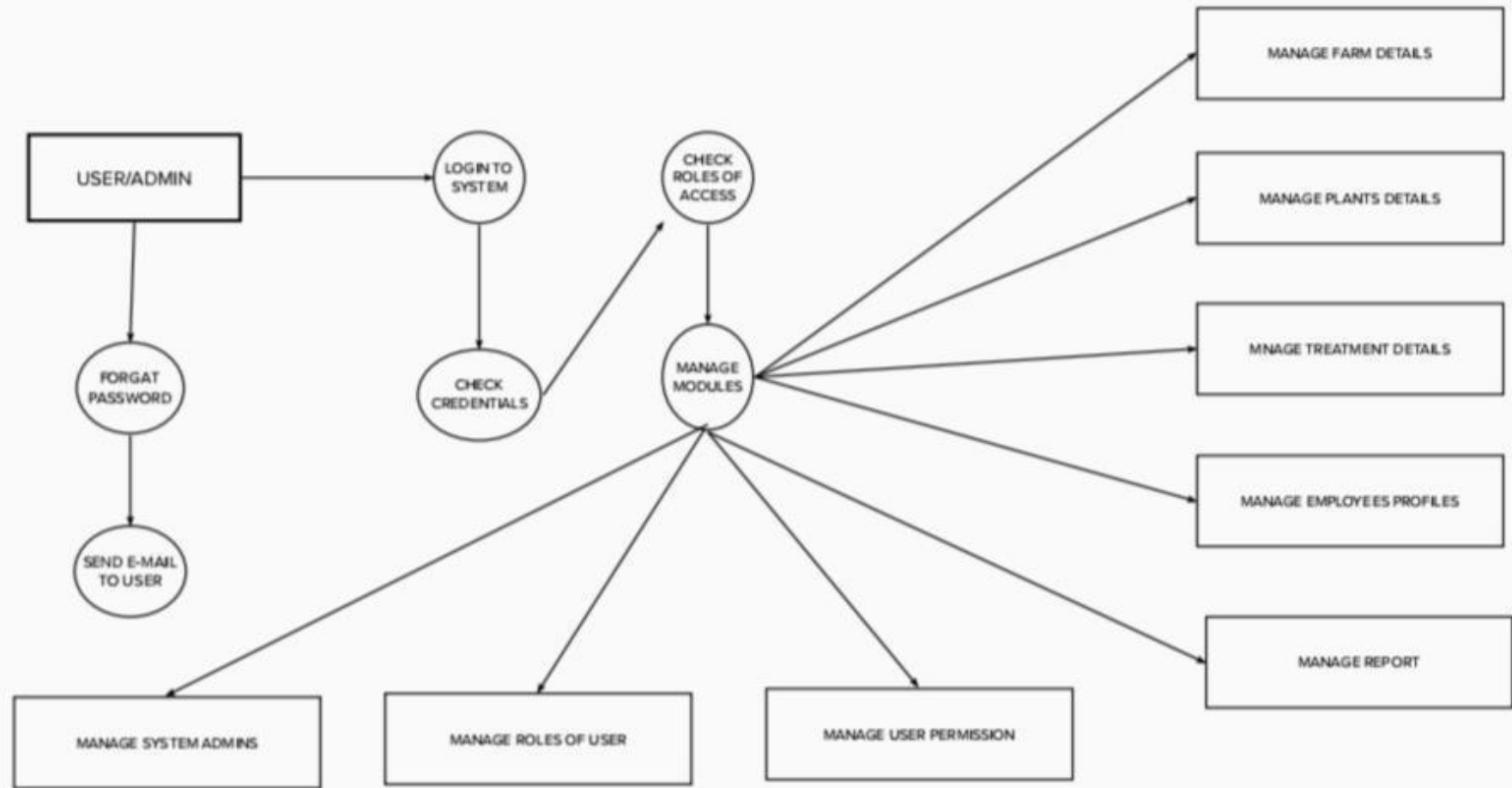
Data Flow Diagram & User Stories

Team ID	PNT2022TMID44437
Project Name	Smart Farmer-IOT Enabled Smart Farming Application

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.





DFD 0 FLOW SMART FARMING APPLICATION USING IOT

- ✧ The different types of Soil Parameters are Temperature, Soil moisture, Humidity they are values are sensed by using Sensors and the Data obtained and stored to the Cloud account.
- ✧ Arduino UNO used as a processing unit that process the data obtained from the different types of sensors and weather data from the weather API.
- ✧ NODE-RED is used as a programming tool to write Hardware, software and API's.
- ✧ All the collected data is send to the mobile application that was developed by the MIT App inventor. The user could plan through an app, Weather to water the crop or not depending upon the sensors values. By using this app we can easily 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
		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
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	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						

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Administrator						