Project Design Phase – II
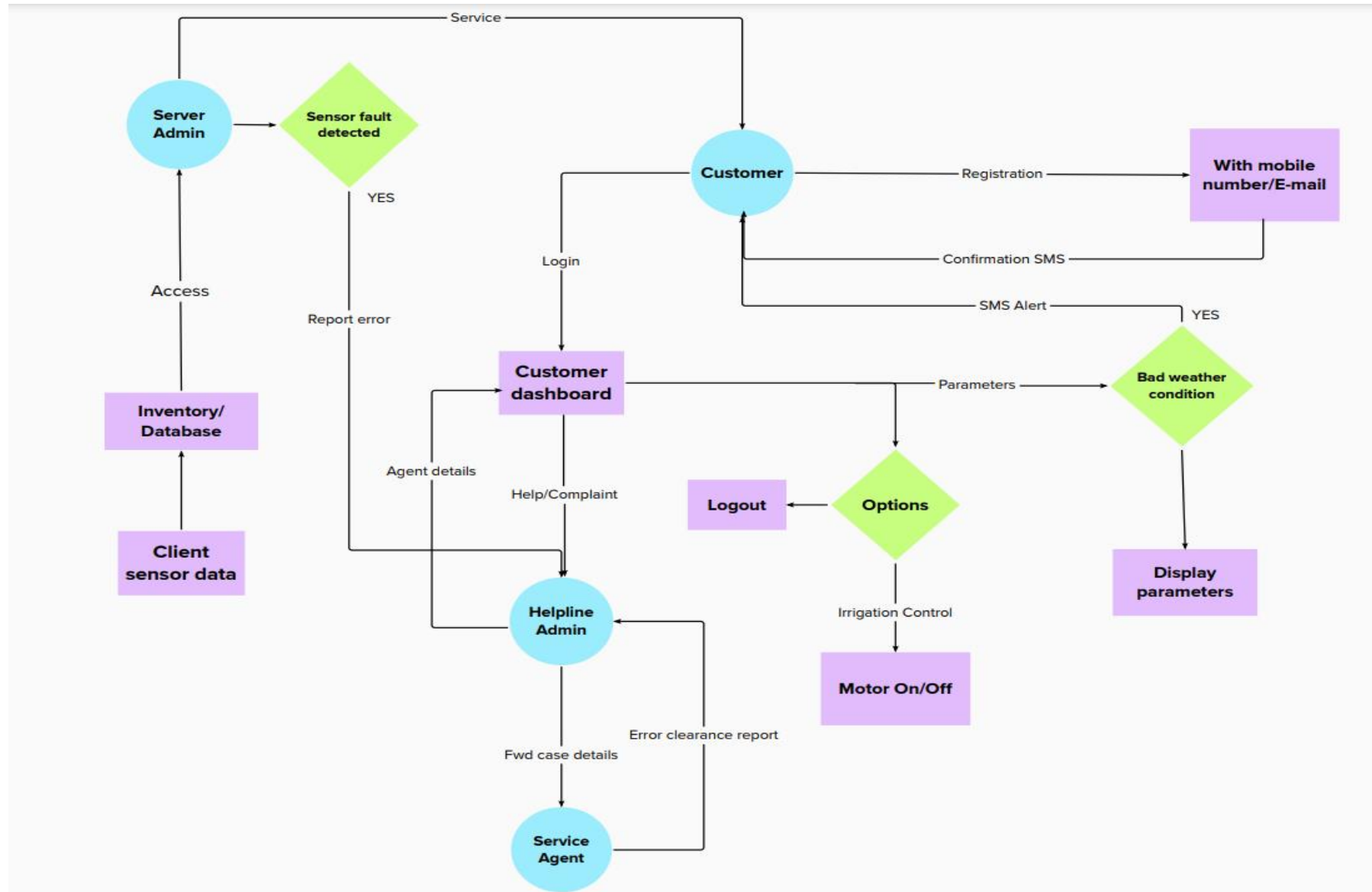## Data Flow Diagram & User Stories

Date	19 October 2022
Team ID	PNT2022TMID52856
Project Name	Project – Smart Farmer-IoT Enabled smart Farming Application
Maximum Marks	4 Marks

Smart Farming Application Flow Diagram (simplified)
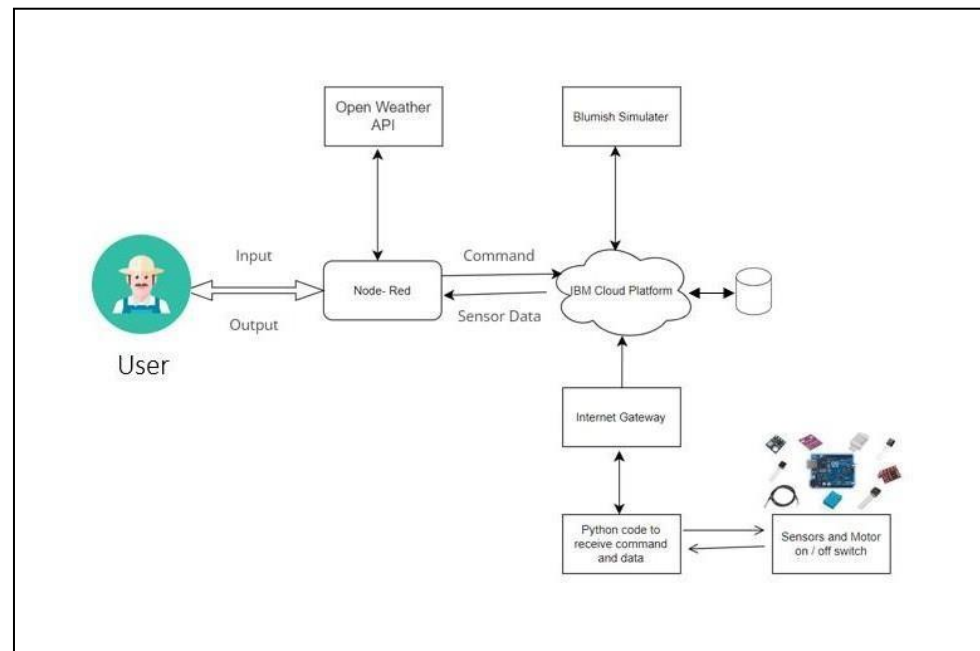
Data Flow Diagram:

User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Farmer)	Registration	USN-1	As a user, I can register for the application by entering my mobile number & captcha and setting new password.	OTP generation	High	Sprint-1
		USN-2	As a user, I will receive OTP through SMS which I will enter in the application.	I can access my account / dashboard	High	Sprint-1
		USN-3	As a user, I can register for the application through Email/Gmail	Verification email generation	Medium	Sprint-3
		USN-4	As a user, I will receive OTP through email which I will enter in the application.	I can access my account / dashboard	Medium	Sprint-3
	Login	USN-5	As a user, I can log into the application by entering user name & password	I can access my account / dashboard	High	Sprint-1
	Forgot password	USN-6	As a user, I can reset my password using "forgot password" option.	OTP generation	Low	Sprint-4
		USN-7	As a user, I will receive OTP through email/SMS which I will enter in the application .	Set password window opened	Low	Sprint-4
		USN-8	As a user, I will enter a new password.	I can access my account / dashboard	Low	Sprint-4
		USN-9	As a User, I can access the dashboard in which user profile, sensor readings, crop variety suggestions, fertilizer recommendation, weather report and water level are displayed.	I can view the details in the dashboard of Smart Farming Application system.	High	Sprint-1

	Dashboard	USN-10	As a user, I can reach out to support staff using helpline chat in case of any queries. and receive service agent details in case of service requirement.	I will receive complaint acknowledgment and agent details	High	Sprint-2
		USN-11	As a user, I will receive alert notification in case of bad weather.	I will receive SMS & Dashboard notification	High	Sprint-1
		USN-12	As a user, I will receive notification in case of sensor fault / disruption in power supply ,and compliant will be filed automatically.	I will receive complaint acknowledgment & details.	High	Sprint-2
	Dashboard options	USN-13	As a user, I can remotely access the motor switch to control irrigation.	I can control motor switch remotely in the smart farming app.	High	Sprint-2
		USN-14	As a user, I can change my account password using the option provided.	I can reset my password	Low	Sprint-4
		USN-15	As a user, I can logout from my account using the option provided.	I will be redirected to the new user window	Medium	Sprint-4
Administrator	Dashboard	USN-16	As an admin, I can access the server, check for errors in sensor reading and forwards details to helpline admin.	I can access the database.	High	Sprint-2
		USN-17	As an admin, I can manage and organize customer details.	I can access the customer details.	High	Sprint-2
		USN-18	As an admin, I can manage payment details& dues and launch software updates	I will manage accounts.	Medium	Sprint-4

Service Agent	Service log	USN-19	As a service agent, I can login using username and password and entering the captcha.	I can access the service pending log.	High	Sprint-3
		USN-20	As a service agent, I can view the list of service calls pending and the corresponding case details in the dashboard.	I can provide services to the customer.	High	Sprint-3
		USN-21	As a service agent, I will generate error clearance report and forward it to the admin.	The complaint will be cleared from my pending log.	High	Sprint-3
Helpline admin	Complaint Management	USN-22	As a helpline admin, I can access server, check for errors/ helpline query notifications/ complaints etc., and maintain service agent availability record.	I will record new complaints.	High	Sprint-2
		USN-23	As a helpline admin, I will assign a available service agent to the client when complaint is raised and forward the details of the service agent assigned.	Agent will be assigned to the task.	High	Sprint-3
		USN-24	As a helpline admin, I will add compliant details to the agent dashboard.	Agent dashboard gets updated.	High	Sprint-3
		USN-25	As a helpline admin, I can register new complaint on behalf of the incase of abnormal sensor conditions.	I will record the complaints.	High	Sprint-2