IBM NALAIYA THIRAN PROJECT

**Project Design Phase-II**

Date	17 October 2022
Team ID	PNT2022TMID03479
Project Name	IoT Based Smart Crop Protection System for Agriculture
Maximum Marks	4 Marks

Data Flow Diagram & User Stories

DATA FLOW DIAGRAM:

USER

CLOUDANT

EXTERNAL

Hardware
Component

user — (1) → Application → (2) → file

(5) Node Red

(3) clarifai

(6) Fast 2 SMS

(4) → IBM watson
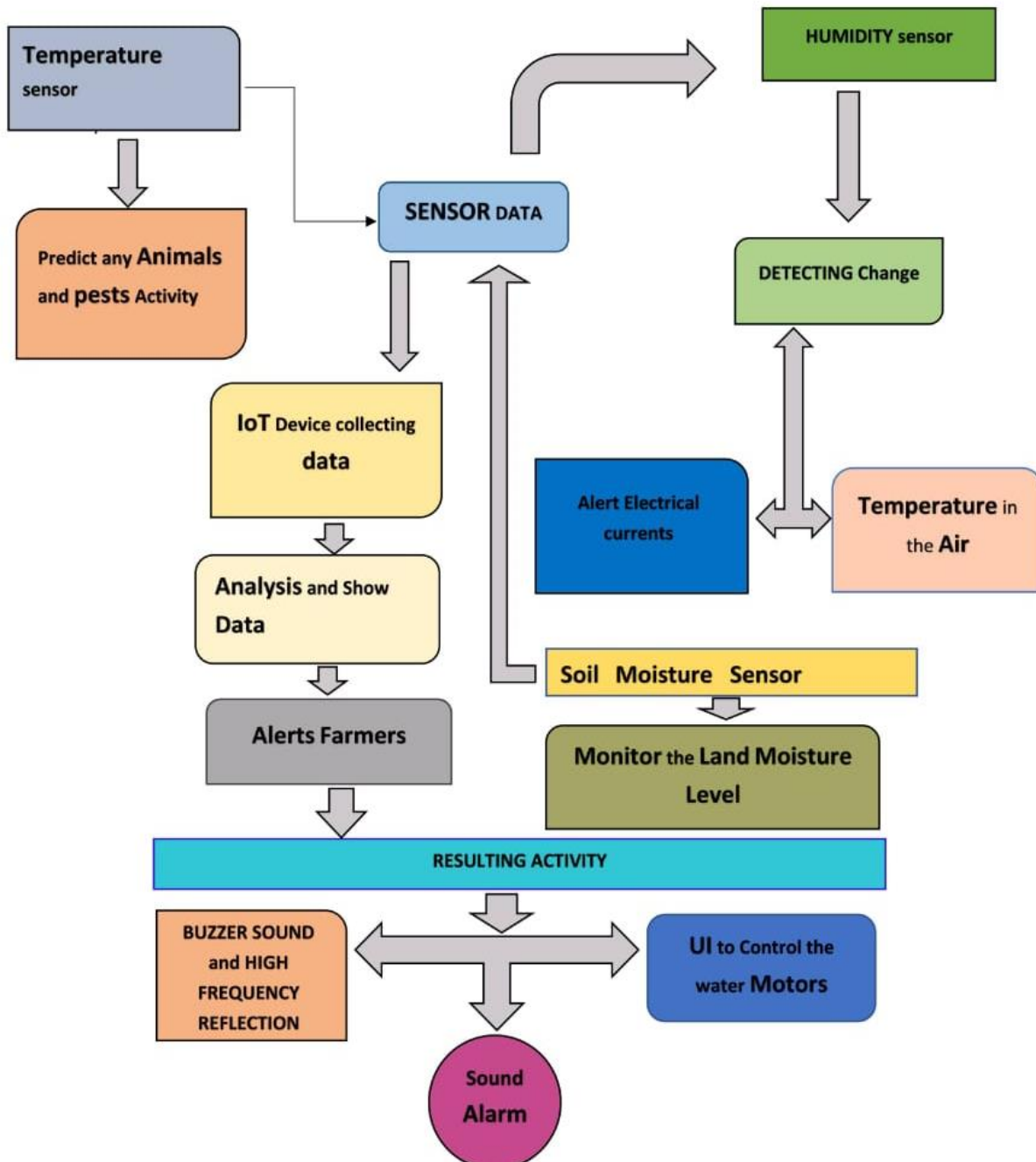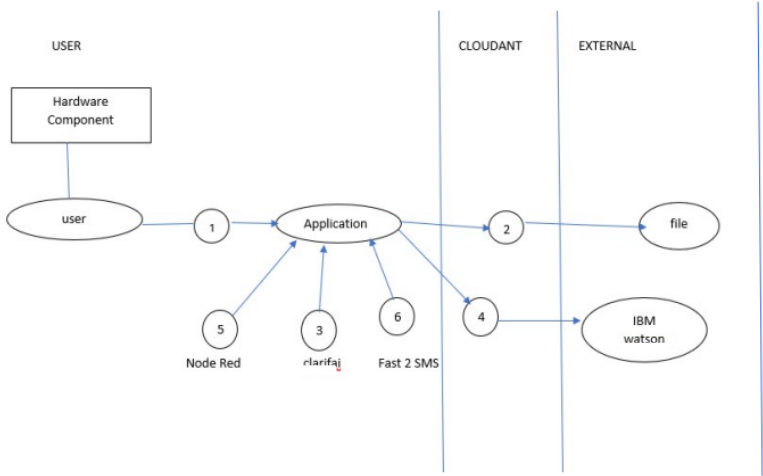
Example: DFD Level 0 (Industry Standard)

User

login

Check
Credentials

check role of
access

Manage
Modules

Manage
system
admin

manage
role of
user

Weather
Station

Controlling
Motor Pump via
Mobile
Application

Fencing

Warehouse
Management
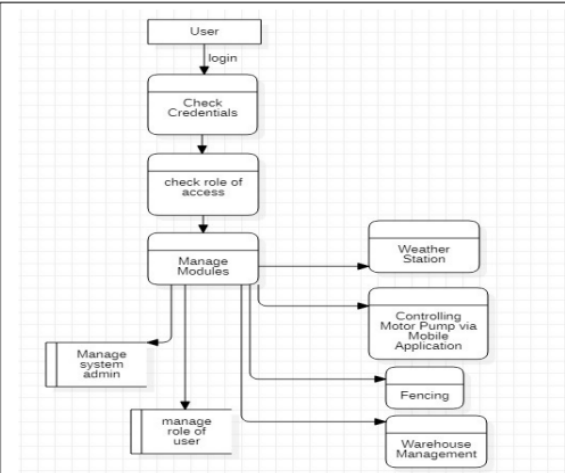
User Type	Functional requirement (Epic)	User Story number	User Story/Task	Acceptance criteria	Priority	Release
Customer (Mobileuser)	Registration	USN-1	User can enter into the web application	I can access my account /dashboard	High	Sprint 1
		USN-2	User can register their credentials like email id and password	I can receive confirmation email & click confirm	High	Sprint 1
	Login	USN-3	User can log into the application by entering email & password	I can login to my account	High	Sprint 1
	Dashboard	USN-4	User can view the temperature	I can view the data given by the device	High	Sprint 2
		USN-5	User can view the level of sensor monitoring value	I can view the data given by the device	High	Sprint 2
Customer (Web user)	Usage	USN-1	User can view the web page and get the information	I can view the data given by the device	High	Sprint 3
Customer	Working	USN-1	User act according to the alert given by the device	I can get the data work according to it	High	Sprint 3
		USN-2	User turns ON the water motors/Buzzer/Sound Alarm when occur the disturbance on field.	I can get the data work according to it		Sprint 4
Customer care Executive	Action	USN-1	User solve the problem when some faces any usage issues	I can solve the issues when some one fails to understanding the procedure	High	Sprint 4
Administration	Administration	USN-1	User store every information	I can store the gained information	High	Sprint 4