

TECHNOLOGY ARCHITECTURE

Date	30.10.2022
Team ID	PNT2022TMID42646
Project Name	Smart farmer - IoT Enabled Smart farming application.

The Deliverable shall include the architectural diagram as below and the information as per the Table1 & Table 2

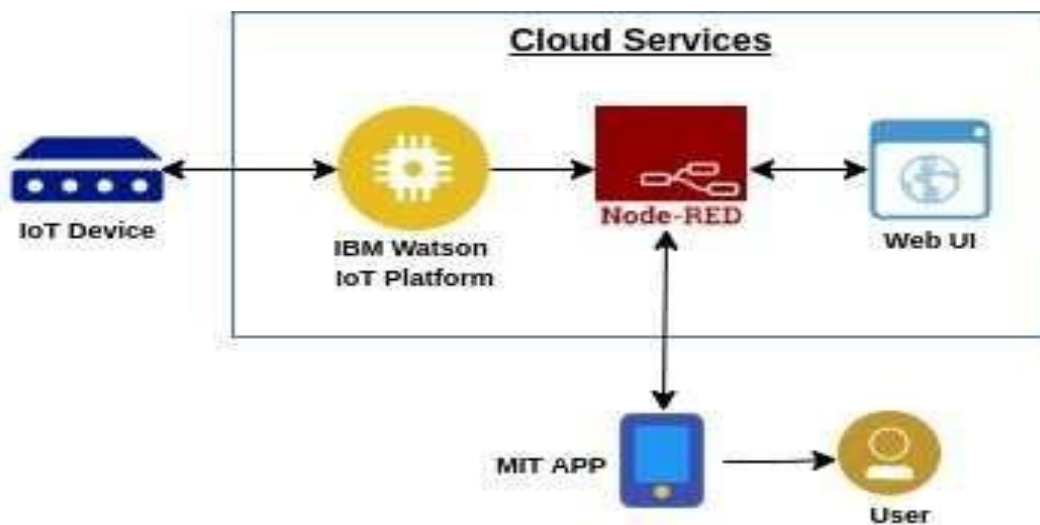


Table-2:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application	MIT app
2.	Application Logic-1	Logic for a process in the application	Node red/IBM Watson/MIT app
3.	Application Logic-2	Logic for a process in the application	Node red/IBM Watson/MIT app
4.	Application Logic-3	Logic for a process in the application	Node red/IBM Watson/MIT app
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL,etc
6.	Cloud Database	Database Service on Cloud	IBM cloud
7.	Temperature sensor	Monitors the temperature of the crop	
8.	Humidity sensor	Monitors the humidity	
9.	Soil moisture sensor (Tensiometers)	Monitors the soil temperature	
10.	Weather sensor	Monitors the weather	
11.	RTC module	Date and time configuration	
12.	Relay	To get the soil moisture data	

Table-2:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	MIT app,Node-Red	Software
2.	Scalable Architecture	Drone technology, pesticide monitoring ,Mineral identification in soil	Hardware