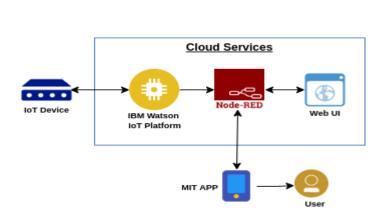
## Project Design Phase-II Technology Architecture

Date	15October 2022
Team ID	PNT2022TMID25625
Project Name	Smart Farmer-IoT enabled smart farming
	application.
Maximum Marks	4 Marks

## **Technical Architecture:**

The Deliverable shall include the architectural diagram as below and the information as per the table 1 & table 2





**Table-1 : Components & Technologies:** 

Component	Description	Technology
User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	MIT app
Application Logic-1	Logic for a process in the application	Node red/IBM Watson/MIT app
Application Logic-2	Logic for a process in the application	Node red/IBM Watson/MIT app
Application Logic-3	Logic for a process in the application	Node red/IBM Watson/MIT app
Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
Cloud Database	Database Service on Cloud	IBM cloud.
Temperature sensor	Monitors the temperature of the crop	
Humidity sensor	Monitors the humidity	
Soil moisture sensor (Tensiometers)	Monitors the soil temperature	
Weather sensor	Monitors the weather	
Solar panel		
RTC module	Date and time configuration	
Relay	To get the soil moisture data	
	User Interface  Application Logic-1  Application Logic-2  Application Logic-3  Database  Cloud Database  Temperature sensor  Humidity sensor  Soil moisture sensor (Tensiometers)  Weather sensor  Solar panel	User Interface  How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.  Logic for a process in the application  Application Logic-2  Logic for a process in the application  Application Logic-3  Logic for a process in the application  Database  Data Type, Configurations etc.  Cloud Database  Database Service on Cloud  Temperature sensor  Monitors the temperature of the crop  Humidity sensor  Monitors the humidity  Soil moisture sensor (Tensiometers)  Monitors the weather  Solar panel  RTC module  Date and time configuration

**Table-2: Application Characteristics:** 

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