Project Design Phase - II

Technology Stack (Architecture & Stack)

Date	16 Oct 2022 PNT2022TMID11484	
Team ID		
IOT enable Smart farming r		

Technical Architecture:

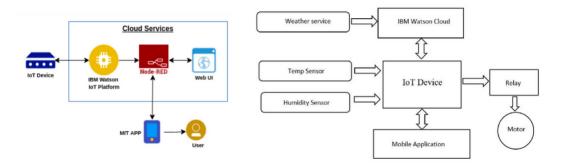


Table 1: Components & Technologies:

.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	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	1.

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	