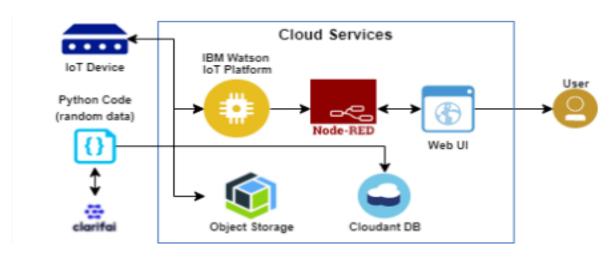
## **Project Design Phase-II**

## **Technology Stack (Architecture & Stack)**

Date	15 October 2022
Team ID	PNT2022TMI44775
Project Name IoT based smart crop protection system for agriculture	
Maximum Name	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:** 

S.No	Component	Description	Technology
1.	User Interface	How user interacts with the	App development
		Web UI	
2.	Application Logic-1	Logic for a process in the	Python
		application	Objectives
3.	Application Logic-2	Logic for a process in the	IBM Watson STT
		application	service
4.	Application Logic-3	Logic for a process in the	Node-RED service
		application	
5.	Database	Data Type	Database
			Cloudant DB
6.	Cloud Database	Database Service on Cloud	Cloud Object

			store service
7.	File Storage	File storage requirements	IBM Block Storage
•	Infrastructure (Server /	Application Deployment on	Cloud Foundry
	Cloud)	Local System / Cloud Local	
		Server Configuration:	
		Cloud Server Configuration:	

S.No	Characteristics	Description	Technology
1.	Open-source	The open-source	SAN-SAF
	Frameworks	frameworks used	
2.	Security	List all the security /	IBM cloud
	Implementations	access controls	encryptions
3.	Scalable Architecture	implemented Justify the scalability of	IBM cloud
<b>J.</b>	Scalable Alemtecture	architecture (3 - tier, Micro-services)	Architecture
4.	Availability	Justify the availability of applications (e.g. use of load balancers, distributed servers etc.)	Web Application can even be used by the framers in the horticulture
5.	Performance	Design consideration for the performance of the application	Since the web application is high efficient, it can be used by the farmers irrespective of time.