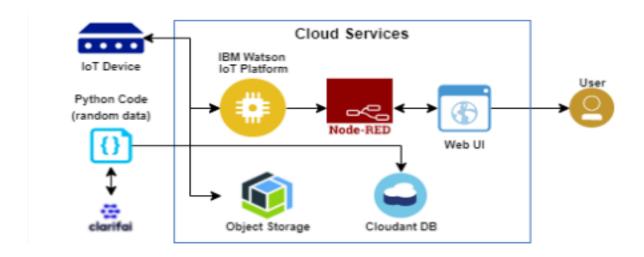
Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	15 October 2022
Team ID	PNT2022TMID38557
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 table1 & table2.

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
		application	service
5.	Database	Data Type	Database Cloud
			DB
6.	Cloud Database	Database Service on Cloud	Cloud Object
			store service

7.	File Storage	File storage requirements	IBM Block
			Storage
8.	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 implemented	encryptions
3.	Scalable	Justify the scalability	IBM cloud
	Architecture	of architecture (3 –	Architecture
		tier,	
		Micro-services)	
4.	Availability	Justify the availability	Web Application
		of applications (e.g.	can even be used by
		use of load balancers,	the framers in the
		distributed servers	horticulture
		etc.)	
5.	Performance	Design consideration	Since the web
		for the performance of	application is high
		the application	efficient, it can be
			used by the farmers
			irrespective of time.