Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	27 October 2022
Team ID	PNT2022TMID16680
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 thetable 1 & table 2.

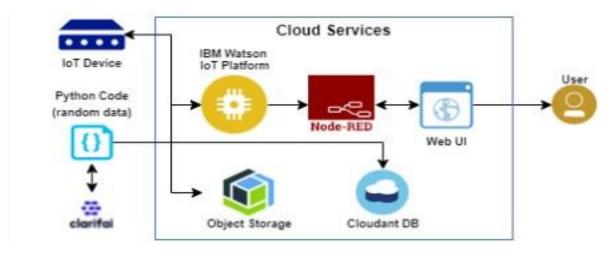


Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with the Web UI	App development
2.	Application Logic-1	Logic for a process in theapplication	Python Objectives
3.	Application Logic-2	Logic for a process in theapplication	IBM Watson STTservice
4.	Application Logic-3	Logic for a process in the application	Node-RED service

5.	Database	Data Type	Database
			Cloudant
			DB
6.	Cloud Database	Database Service on Cloud	Cloud
			Objectstore
			service
7.	File Storage	File storage requirements	IBM Block
			Storage
8.	Infrastructure (Server /	Application Deployment on	Cloud Foundry
	Cloud)	Local System / Cloud	
		Local Server	
		Configurationo	
		Cloud Server Configurationo	

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