Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID44876
Project Name	Project - IoT Based Smart Crop Protection System for Agriculture
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2
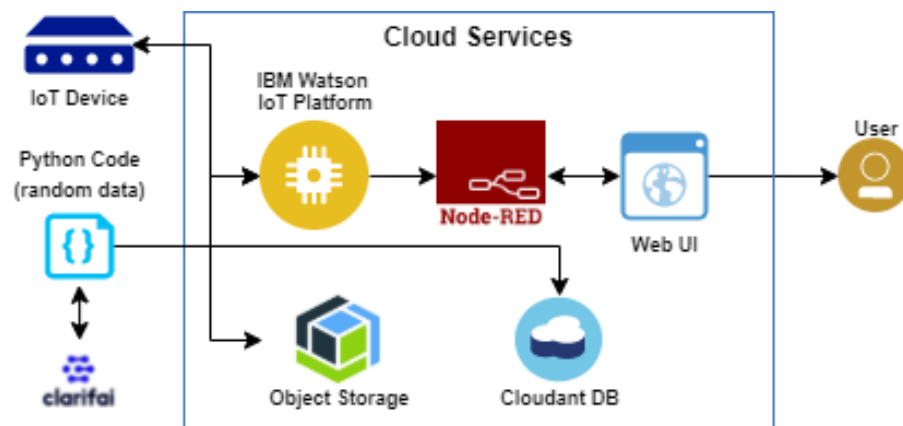
Table-1: Components &Technologies

S.No	Component	Description	Technology
1.	User interface	How user interacts with the web UI	HTML, CSS, JavaScript / Angular Js / React Js etc.

2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson/node red
4.	Application Logic-3	Logic for a process in the application	IBM Watson/node red
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on cloud	IBM Cloudant
7.	File Storage	File storage requirements	IBM Block Storage
8.	Infrastructure(Server /cloud)	Application deployment on Local System/Cloud Local Server configuration: Cloud sever configuration	Cloud Foundry

Table-2:Application Characteristics

S.No	Characteristics	Description	Technology
1.	Open-Source frameworks	The open-source frameworks used	Software
2.	Security implementations	List all the security/access controls implemented	Encryption process
3.	Scalable architecture	Justify the scalability of architecture(3-tier, micro-services)	Software
4.	Availability	Justify the availability of applications (eg. use	Software

		of load balancers, distributed servers etc)	
5.	Performance	Design consideration for the performance of the application	Software