

Date	04 NOVEMBER 2022
Team ID	PNT2022TMID44196
Project Name	IoT Based Smart Crop Protection
Maximum Marks	4 Marks

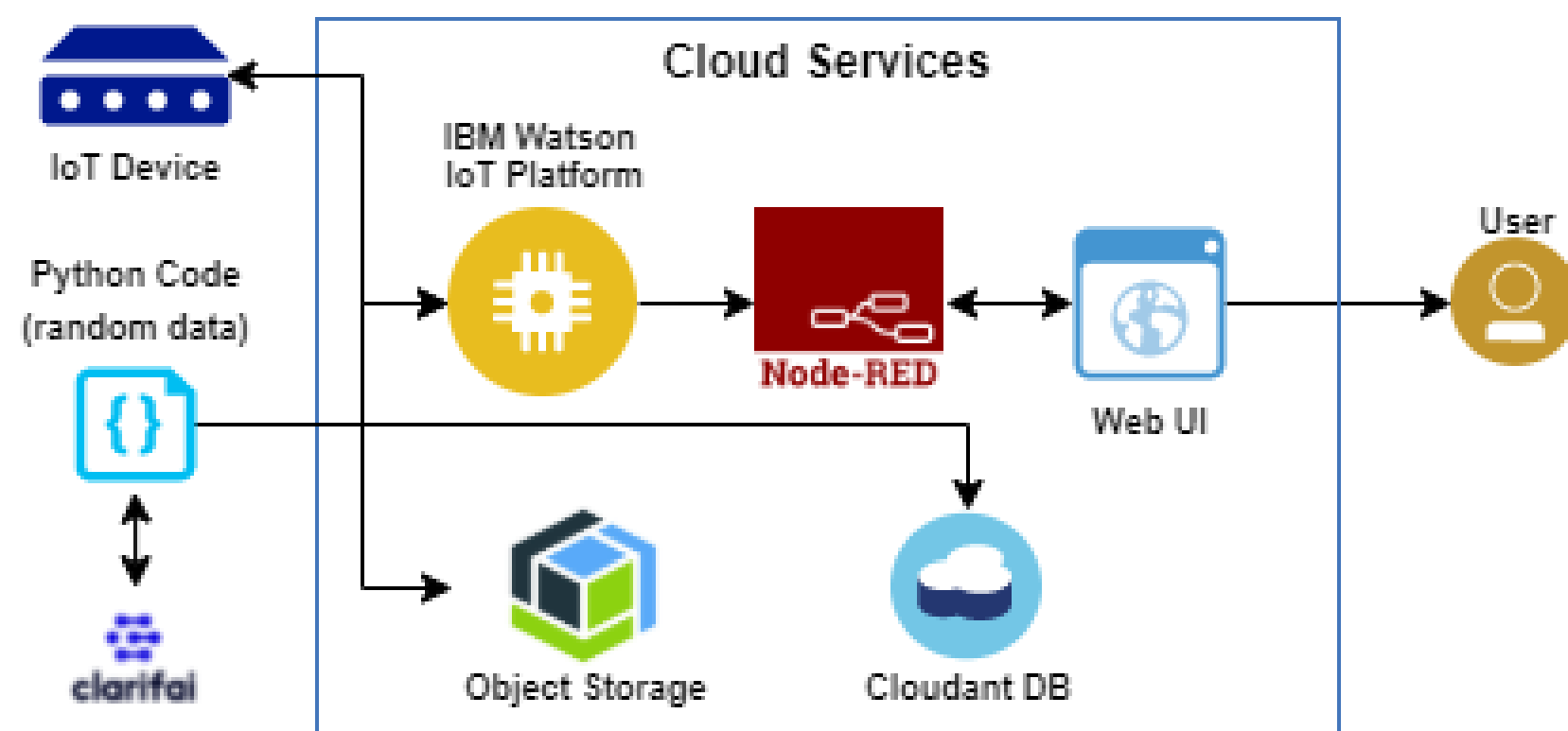


Table-1 : Components & Technologies:

SNo	Component	Description	Technology
1.	User Interface	How user interacts with application e.g Web UI, Mobile App, Chatbot etc.	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.	Temperature sensor	Monitor the temperature	TMP36
8.	Humidity sensor	Monitor the humidity	DHT11
9.	Soil moisture sensor	Measure the amount of water in the soil	Soil moisture sensor
10.	Weather monitoring	Monitor the weather	Temperature sensor

Table-2: Application Characteristics:

SNo	Characteristics	Description	Technology
1.	Open-Source Frameworks	Clarifai,Node- red	Software
2.	Security Implementations	Senisitive and private data must be protected from their protection untill the decision-making and storage stages.	Encryption process
3.	Scalable Architecture	Scalability is a major concern for IOT platform it has been shown that different architectural choices of IOT platform affect system capability and that automatic real time decision making is feasible in an environment composed of dozens of thousand	Software
4.	Availability	Automatic adjustment of farming equipment made possible by linking information like crops/weather and temperature,humidity etc.	Software
5.	Performance	The ideas of implementing integegrated sensors with sensing soil and envirenmental or ambient parameters in	Software

SNb	Characteristics	Description	Technology
		framing will be more efficient for overall monitoring .	