Project Design Phase – II

Technical Architecture

Date	30-10-2022
Team ID	PNT2022TMID27900
Project	IoT Based Smart Crop Protection System for Agriculture
Maximum Marks	4 Marks

Technical Architecture:
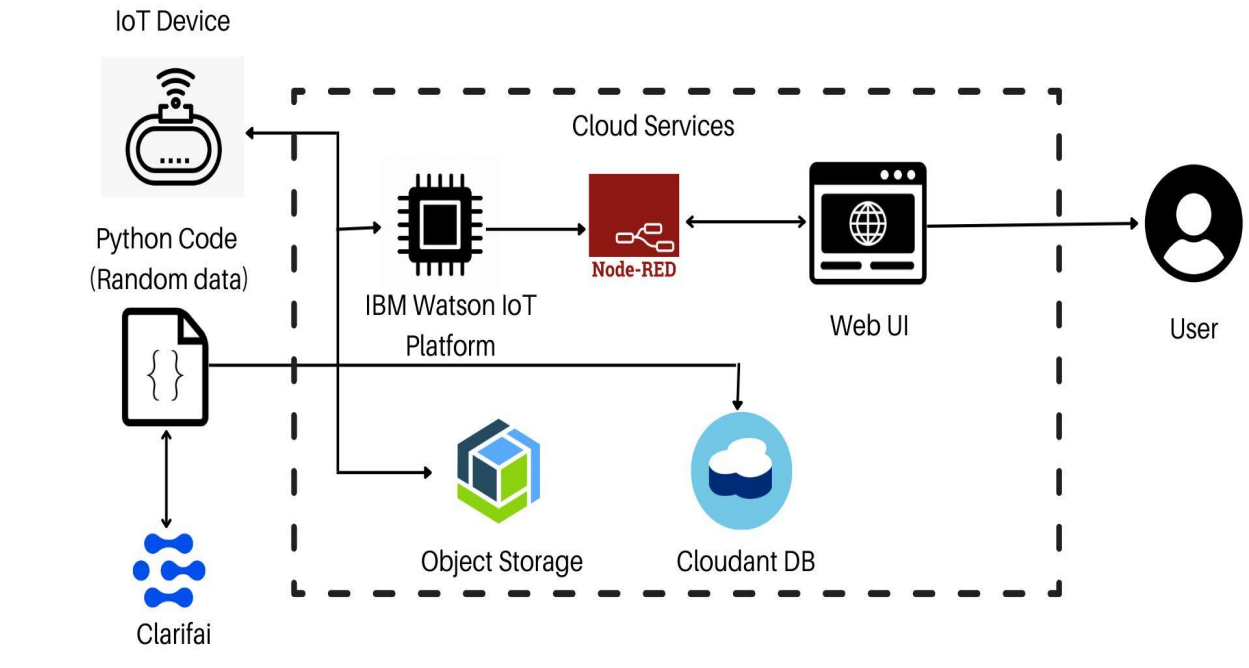
IoT Based Smart Crop Protection System for Agriculture

COMPONENTS :

S.NO.	COMPONENT	DESCRIPTION
1.	IoT Device	Collect readings from sensors and those values are derived using IBM Watson IoT Platform.
2.	Python	Used to program the IoT device and Clarifai.
3.	Clarifai	Used for object classification, detection, tracking, geolocation and visual search and is programmed using python.
4.	IBM Watson IoT Platform	Derive values from IoT Device
5.	Node - Red	Used for wiring together hardware devices, APIs and online services as part of the IoT. The data in IBM Watson IoT Platform can be viewed by other platform using Node – Red.
6.	Object Storage	The readings collected by IoT device is stored here
7.	Cloudant DB	Used for cloud-based service.
8.	Web UI	User can view the details and control the system through this.