

Project Design Phase-II

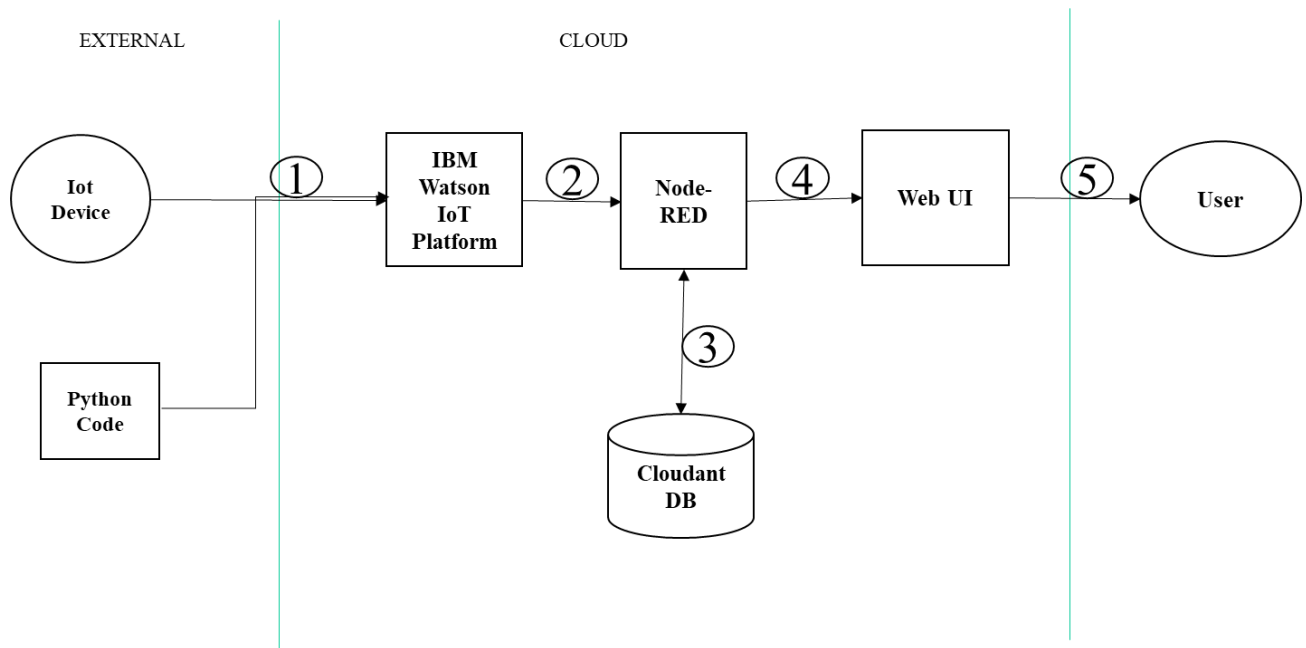
Data Flow Diagram & User Stories

Date	18 October 2022
Team ID	PNT2022TMID18045
Project Name	Project - IoT Based Smart Crop Protection System for Agriculture
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

DFD:



1. Data collected from IoT sensor and from Python code and passed to IBM Watson IoT Platform, which act like a intermediary between Devices and Node-red application.
2. Data from device passed to IoT platform and then to Node-red for processing and displaying.
3. Image of detected animal stored in Cloud object storage sense and image URL stored in Cloudant DB.
4. Node-red pass data for visualization.
5. User can access the web UI for visualization and get clear understanding about crops.

User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	User can enter into the web application.	I can access my account / dashboard	High	Sprint-1
		USN-2	User can register their credential.	I can receive confirmation email & click confirm	High	Sprint-1
	Login	USN-3	User can login into the application.	I can login into my account.	High	Sprint-1
	Dashboard	USN-4	User can view temperature, humidity, moisture, animal detection.	I can view all the needed data from the web application	High	Sprint-2
Customer (Web user)	Usage	USN-1	User can view the web page and get the information.	I can view the data given by the device	High	Sprint-3
	Working	USN-2	User act according to the alert given by the device	I can get the data work according to it	High	Sprint-3
		USN-3	User turns ON the water motors / Buzzer / Sound Alarm when occur the disturbance on field	I can get the data work according to it		Sprint-4
Customer care Executive	Action	USN-1	User solve the problem when some faces any usage issues	I can solve the issues when someone fails to understanding the procedure	High	Sprint-4
Administrator	Administration	USN-1	User stores the information for further use.	I can store the gained information	High	Sprint-4