Project Design Phase -II

Technology Stack(Architecture & Stack)

DATE	12 November 2022
TEAM ID	PNT2022TMID26051
PROJECT NAME	Project – IOT Based Smart Crop
	Protection System for Agriculture
MAXIMUM MARKS	4 marks

Team leader:

G.Poojitha Naidu

Team members:

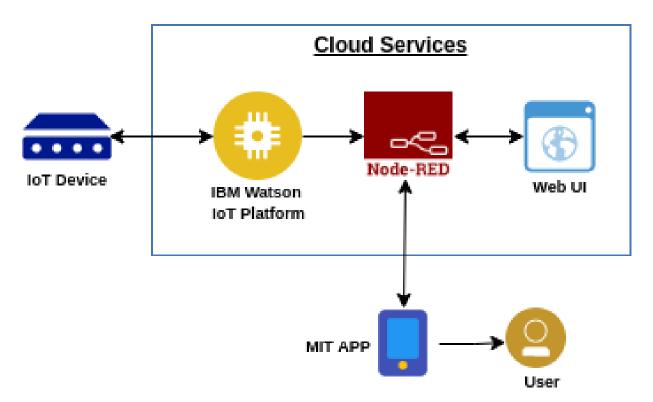
K.Pravalika

G.Shamitha

S.Bhavana

Technical Architecture: The architectural diagram of the model is as below and the Technology used is shown in table 1 & table 2.

References: https://www.researchgate.net/publication/34994058
2 Implementation of IIoT_based_smart_crop_protection_and_i
rrigation_system



Block Diagram

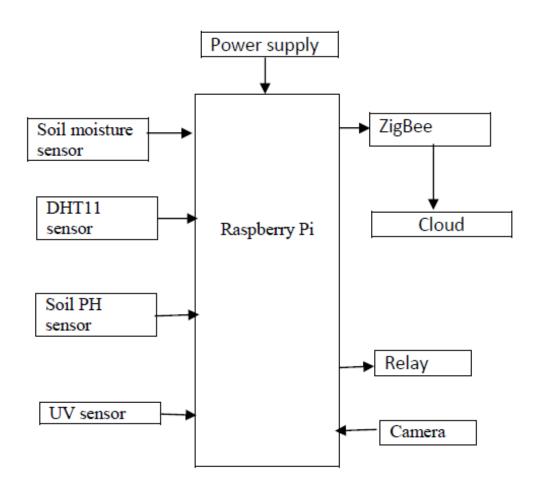


Table 1: Components & Technologies

S.N	Component	Descriptio	Technolog
О		n	y
1	User Interface	How user interacts with application e.g., Mobile application	HTML, CSS, JavaScript / Angular JS /Node red
2	Application Logic-1	Logic for a process in the application	Java / Python
3	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc
6	Cloud Database	Database Service on Cloud	IBM DB2
7	File storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
9	IOT Model	Purpose of IoT Model is	IBM IoT Platform

		for integrating the sensors with a user interface.	
10	Infrastructure(server/clo ud)	Application Deployment on Local System / Cloud Local Server Configuratio n: Cloud Server Configuratio n: cloud Server	Local, Cloud Foundry, Kubernetes, etc

References: