



Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with website e.g. Web UI, website , etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Website Logic-1	Logic for a process in the website	Python
3.	Website Logic-2	Logic for a process in the website	IBM Watson/node red
4.	Website Logic-3	Logic for a process in the website	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
11.	Living things detection	Detect the living things	PIR sensor
12.	Sprinkler	Driving the birds away	sprinkler

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Clarifai, Node-red	Software
2.	Security Implementations	Sensitive and private data must be protected from their protection until 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 integrated sensors with sensing soil and environmental or ambient parameters in farming will be more efficient for overall monitoring .	Software

