PROPOSED SOLUTION DOCUMENT

Title: IoT Based Smart Crop Protection System for Agriculture

Team Number: 03

Attribute	Definition	Students work
Novelty	The proposed solution needs to be fundamentally different from what people already know..	A toolbox of novel techniques based on the integration of crop prediction system and Internet of things
Feasibility of idea	Project feasibility is the study of a project's various elements to determine if it has the potential for success.	Earlier crop protection systems required manpower to detect intrusion and protect the crops. But, this project makes use of Iot technology with ultrasonic frequencies being used to prevent the intrusion.
Business model	Create a model for identifying products and services to sell the market to target and also take into account anticipated expenses.	This project can be applied to different sectors of farming. Since it reduces the involvement of humans by bringing into picture new technologies, the cost of manufacturing also drops down. This makes the crop products easily available to the end user.
Social Impact	Social impact is how organizations, businesses or individuals' actions affect the surrounding community.	One of the major factors that has a direct impact on crop protection systems is the area where it is conceived. Different areas mean different types of crops and different types of intrusion. It therefore places a demand on the developer to configure the sensor values in such a way that it suits all kinds of environment and come up with a detection system that is common to all environments yet uniquely identifies the disturbance

Scalability of solution	Scalability is system that can accommodate expansion without hampering the existing workflow and ensure an increase in the output or efficiency of the process.	Since this system system uses computer vision techniques integrated with IBM cloudant services helps efficiently to retrieve images in large scale thus improving scalability

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