PROJECT DESIGN PHASE-I

Team ID	PNT2022TMID29654
Project Name	IOT based smart crop protection system for agriculture
Maximum Marks	2 Marks

PROPOSED SOLUTION

S.No.	Parameter	Description
1.	**Problem Statement (Problem to be solved)**	• Farmers can't stay in the field 24x7 in order to safeguard crops form animals (wild animals) and birds. • They don't know when the animals will attack the farm i.e., cause damage to the crop
2.	**Idea / Solution description**	• We are decided to protect crops from animals and birds by using SENSOR (PIR SENSOR), ARDUINO UNO, BUZZERS or ALARM…in the field. • This may help farmers to feel that their crops were safe and protected. This makes them to feel free.
3.	**Novelty / Uniqueness**	• In this project, apart from this sensors and Arduino. We decide to implement fencing with automatic door (opening & closing) by using ultrasonic sensor and servomotor.
4.	**Social Impact / Customer Satisfaction**	• Protecting crops from animals and birds especially in nights may become easier • They can do their other works without any fear about the crops.
5.	**Business Model (Revenue Model)**	• This will be one of the reasons for more crop yielding (i.e., Animals and birds presents may sense through sensors, therefore crops will be protected from damage). • Only Installation process is costlier, apart from that this will help farmers in great way.
6.	**Scalability of the Solution**	• To protect crops from animals and birds especially in night time is difficult. To avoid this discomfort, we will use this technology in our field to protect crops. • This will be FARMER'S FRIENDLY.