Ideation Phase
Define the Problem Statements

Date	25 October 2022
Team ID	PNT2022TMID15088
Project Name	IOT Based Smart Crop Protection System For Agriculture
Maximum Marks	2 Marks

Problem Statement:

- Crops in farms are many times ravaged by local animals like buffaloes, cows, goats, birds, and fire etc. This leads to huge losses for the farmers. It is not possible for farmers to barricade entire fields or stay on field 24 hours and guard it.

- An intelligent crop protection system helps the farmers in protecting the crop from the animals and birds which destroy the crop.

- So here we propose automatic crop protection system from animals and fire. This is an Arduino Uno based system using microcontroller. This system uses a motion sensor to detect wild animals approaching near the field and smoke sensor to detect the fire. This system also helps farmers to monitor the soil moisture levels in the field and also the temperature and humidity values near the field. The motors and sprinklers in the field can be controlled using the mobile application.

Example:

I am	I'm trying to	But	Because	Which makes me feel
Farmer	Protect my crop from animals, pests and monitor various parameters of the crop.	It requires a technology to monitor the field 24*7.	It is not possible for us to barricade entire fields or stay on field 24 hours and guard it.	Worried. So I am in need of a protection system.