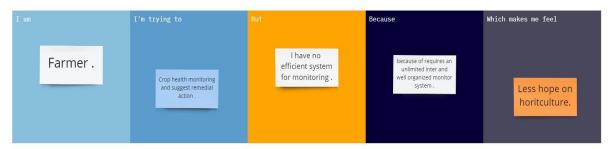
IDEATION PHASE PROBLEM STATEMENTS

Date	18 September 2022
Team ID	PNT2022TMID19796
Project Name	IoT Based Smart Crop Protection System For Agricultrue
Maximum Marks	2 Marks

Problem Statement Template:



Problem Statement (PS)	I am (Customer)	I am trying to	But	Because	Which makes me feel
PS-1	Farmer	Monitoring the growing condition	It involves risk on related equipment and understand the use of technology	Requires more knowledge and skills	Irritated
PS-2	Farmer	Smart and precision irrigation	Climates changes to increased maintenance of channels	Purchasing and installing costs high	Suitable for mass crop protection

Agriculture farming is the main source of livelihood for many people in different parts of the world. But still, farmers depend on traditional methods for past years. Also, among the reasons behind the low yield of crops includes Animal intrusion, causing serious damage to the crops.

The Necessity of IoT-Based Smart Crop Protection System for Agriculture:

Crops growing on farms are many times devastated by local animals like buffaloes, cows, goats, birds, etc. This makes the farmers face a huge loss. And it's impossible to keep an eye on the field or stay on the field for the whole day and protect it.

Low production of crops is one of the major issues faced by the farmers in our country. This includes two main reasons. One of them is the crops destroyed by wild and domestic animals.

Impact of this issue:

- Low productivity
 - The damage to the crops leads to low productivity
- Threat to animal

The electrical fences constructed are a threat to animals which gives an electric shock when animals come in contact.

When does this issue occur:

Due to deforestation, animals become homeless. The removal of trees reduces available food, shelter, and breeding habitat. Wildlife becomes fragmented, where native species must live on remaining habitat places that are surrounded by disturbed land that is being used for agriculture and other uses.

Why it is important to fix the problem:

IoT-based Smart Farming improves the entire agriculture system by monitoring the field in real-time. With the help of sensors and interconnectivity, the Internet of Things in agriculture has not only saved the time of the farmers but has also reduced the extravagant use of resources such as water and electricity and thus protecting the crops from getting destroyed.