Ideation Phase Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID46736
Project Name	IoT Based Smart Crop Protection System for
	Agriculture
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

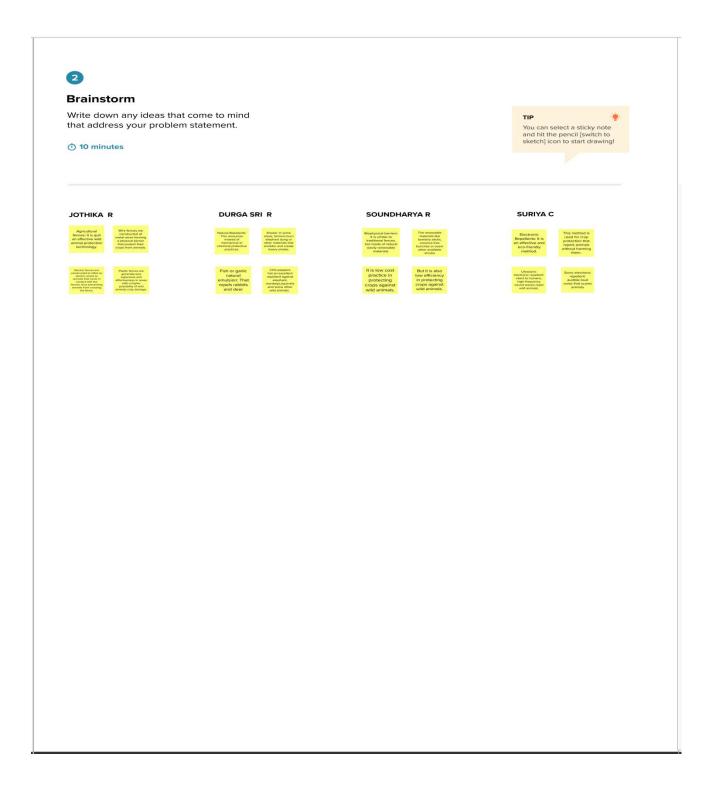
Crop protection combines strategies, tools and products that protect against various wild animals. There are various ways to crop loss from wild animals, in some areas farmers burn elephant dung or other materials that smolder and create heavy smoke, that repels rabbits and deer. Develop smart and affordable solution to protect crops from wild animals is an ultimate objective of this work. Agricultural fences are quit an effective wild animal protection technology. The fences are like Wire fences, Electric fences, Plastic fences. Wire fences are constructed of metal wires forming a physical barrier that protect their crops from animals. Electric fences are constructed to inflict an electric shock to animals that come with the fences, thus preventing animals from crossing the fences. Plastic fences are generally less expensive and effectiveness in areas with a higher possibility of wild animals crop damage.

Natural repellents is a resources instead of mechanical or chemical protective practices. The natural repellents are smoke, fish or garlic natural emulsion and chilli peppers. Smoke in some area is due to, farmers burn elephant dung or other materials that smolder and create heavy smoke. Fish or garlic natural emulsion that repels rabbits and deer. Chilli peppers hot an excellent repellent against elephant, monkeys, squirrels and some other wild animals. Biophysical barriers is similar to traditional fences, but made of natural easily renewable materials. The renewable materials like bamboo sticks, coconut tree bunches or some other available shrubs. Electronic repellent is an effective and eco-friendly method. This method is used to protection that repels animals without harming them. Ultrasonic electronic repellent is silent to humans, high frequency sound waves repels wild animals. Sonic electronic repellent audible loud noise that scares animals.

Step-1: Team Gathering, Collaboration and Select the Problem Statement



Step-2: Brainstorm, Idea Listing and Grouping



Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

① 20 minutes

To protect crop damage are by incorporating integrated pest and insects management.

Spraying insecticides, pesticides help to minimize the crop damage.

The farmer can protect their crops by analyzing temperatures, humidity and soil conditions.

Some ways to protect crops from wild animals like agricultural fences, Natural repellents,etc.

Step-3: Idea Prioritization

