Ideation Phase
Brain Storm and Idea Prioritization

Date	November 22, 2023
Team ID	Team - 592078
Project Name	Predicting Lumpy Skin Disease

Brainstorm
& idea prioritization

🕐 **10 minutes** to prepare

⏳ **1 hour** to collaborate

👤 **2-8 people** recommended

1

Defining our problem statement

🕐 5 minutes

PROBLEM

How might we reduce the outbreak of Lumpy Skin Disease ?

Lumpy Skin Disease (LSD) is a deadly disease that only affects cows or buffaloes. The disease can dramatically leads to decrease in milk production which results in food shortages. The outbreak of LSD has major impacts on Cattle Farmers who rely on cattle for their Livelihood and Biodiversity by disrupting the foodchain.Early Detection of the disease reduce the chances of disease outbreak. This can be possible by a machine learning model which predicts the disease at an early stage by considering several factors such as Temperature, Breed, poor hygiene practices etc.

2

Brainstorming Ideas

🕐 10 minutes

Dimpul Sravya

Bala Barathi

Sahithya

Adithi Vemula

Clustering Ideas

🕐 20 minutes

💡 Innovative Technologies

- Develop a machine learning model
- A mobile App to input data about the cattle and receive predictions about disease.
- Make use of satellite imaging data to monitor the vegetation patterns.
- A Sensor System attached to cattle to analyze their health and activity levels.

💡 Awareness Programs

- Increasing awareness about the impact of Cleanliness.
- Campaigning about factors responsible for disease outbreak.
- Organize workshops and training sessions for cattle farmers.

💡 Farmers Enlightment

- Educate farmers about lumpy skin disease and how to identify early signs of the disease
- Foster a community where farmers can share experiences and insights.
- Conduct research to better understand LSD

👥 Doctors into the Scene

- Implementation of Mobile Veterinary units.
- Collaboration with Veterinarians
- Develop a vaccination program to help protect cattle from lumpy skin disease.

💬 Most Common Practices

- Frequently Monitoring health of the cattle.
- Isolation of ill ones from the Healthier ones.
- Do not Hesitate to ask for help

4

Idea Prioritization

🕐 20 minutes

Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

- Make use of satellite imaging data to monitor the vegetation patterns.
- Frequently Monitoring health of the cattle.
- A mobile App to input data about the cattle and recieve predictions about Disease.
- Collaboration with Veterinarians
- A Sensor System attached to cattle to analyze their health and activity levels.
- Campaigning about factors responsible for disease outbreak.
- Increasing awareness about the impact of Cleanliness.
- Develop a machine learning model
- Educate farmers about lumpy skin disease and how to identify early signs of the disease
- Implementation of Mobile Veterinary units.
- Isolation of Ill ones from the Healthier ones.
- Develop a vaccination program to help protect cattle from lumpy skin disease.
- Conduct research to better understand LSD
- Organize workshops and training sessions for cattle farmers
- Foster a community where farmers can share experiences and insights.
- Do not Hesitate to ask for help

Feasibility

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)