# Ideation Phase
# Brainstorm & Idea Prioritization Template

| Date | 21 June 2025 |
|---|---|
| Team ID | LTVIP2025TMID43995 |
| Project Name | Transfer Learning-based Classification of Poultry Diseases for Enhanced Health Management |
| Maximum Marks | 4 Marks |

**Brainstorm & Idea Prioritization Template:**
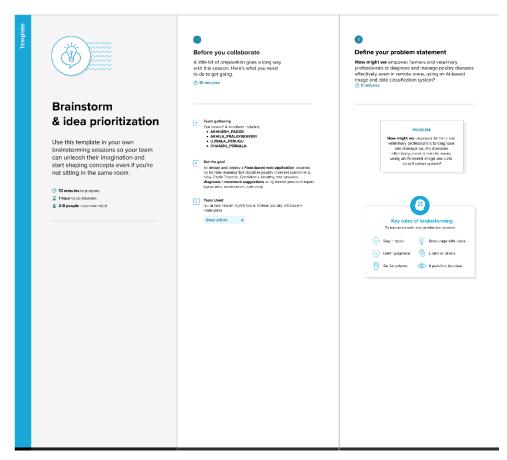
Discussion Summary:
Our team discussed critical issues in poultry health and identified the need for a reliable, automated system for disease classification using images. Manual diagnosis is often error-prone and inaccessible to small-scale farmers.

Selected Problem Statement:
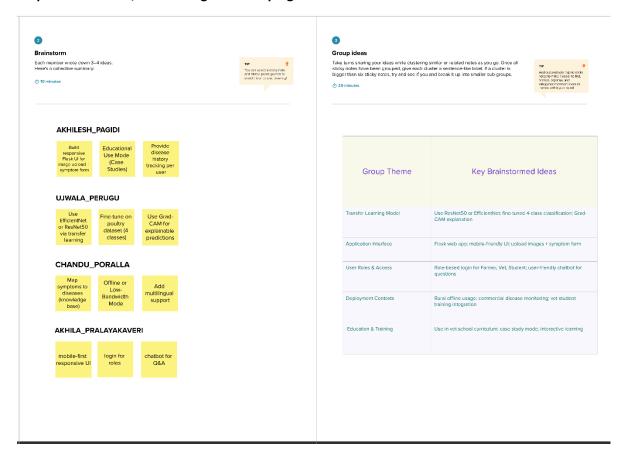"To develop a transfer learning-based image classification system that identifies common poultry diseases accurately to assist in early diagnosis and health management."

Reference: [Brainstorm and idea prioritization • SmartBridge_STB3_LTVIP2025TMID43995](Brainstorm and idea prioritization • SmartBridge_STB3_LTVIP2025TMID43995)

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

# Step-2: Brainstorm, Idea Listing and Grouping

## 2 Brainstorm

Each member wrote down 3–4 ideas.
Here's a collective summary:

⏱ 10 minutes

**TIP**
You can select a sticky note and hit the pencil (switch to sketch) icon to start drawing!

### AKHILESH_PAGIDI

| | | |
|---|---|---|
| Build responsive Flask UI for image upload symptom form | Educational Use Mode (Case Studies) | Provide disease history tracking per user |

### UJWALA_PERUGU

| | | |
|---|---|---|
| Use EfficientNet or ResNet50 via transfer learning | Fine-tune on poultry dataset (4 classes) | Use Grad-CAM for explainable predictions |

### CHANDU_PORALLA

| | | |
|---|---|---|
| Map symptoms to diseases (knowledge base) | Offline or Low-Bandwidth Mode | Add multilingual support |

### AKHILA_PRALAYAKAVERI

| | | |
|---|---|---|
| mobile-first responsive UI | login for roles | chatbot for Q&A |

## 3 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.

⏱ 20 minutes

**TIP**
Add customizable tags to sticky notes to make it easier to find, browse, organize and categorize important views or themes still in your mural

| Group Theme | Key Brainstormed Ideas |
|---|---|
| Transfer Learning Model | Use ResNet50 or EfficientNet; fine-tuned 4-class classification; Grad-CAM explanation |
| Application Interface | Flask web app; mobile-friendly UI; upload images + symptom form |
| User Roles & Access | Role-based login for Farmer, Vet, Student; user-friendly chatbot for questions |
| Deployment Contexts | Rural offline usage; commercial disease monitoring; vet student training integration |
| Education & Training | Use in vet school curriculum; case study mode; interactive learning |

# Step-3: Idea Prioritization

## 4 Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

⏱ 20 minutes

**TIP**
Make sure everyone has their sticky notes should go on the grid. The facilitator can do this manually by using the arrow keys on the keyboard.



## After you collaborate

You can export the mural as an image or pdf to share with members of your company who might find it helpful.

### Quick add-ons

**Share the mural**
Share a view link to the mural with stakeholders to keep them in the loop about the outcomes of the session.

**Export the mural**
Export a copy of the mural as a PNG or PDF to attach to emails, include in slides, or save in your drive.

### Keep moving forward

**Strategy blueprint**
Define the components of a new idea or strategy.
Open the template →

**Customer experience journey map**
Understand customer needs, motivations, and obstacles for an experience.
Open the template →

**Strengths, weaknesses, opportunities & threats**
Identify strengths, weaknesses, opportunities, and threats (SWOT) to develop a plan.
Open the template →