Brainstorm & Idea Prioritization Template

Date: 26 June 2025

Team ID: LTVIP2025TMID44725

Team Size: 4

Project Name: Poultry Disease Detection Using Transfer Learning

Maximum Marks: 4

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

Problem Statement:
Design and develop an AI-based web application using transfer learning to classify poultry images into healthy and disease categories (Coccidiosis, Salmonella, New Castle Disease).

Team Members & Roles:

- Team Leader: Kandera Naga Prudhvi Sai – Model development, backend Flask API

- Team Member: Poondla Divya Lakshmi – React frontend & integration

- Team Member: Medida Gangothri – React frontend & Tailwind CSS UI

- Team Member: Pasupuleti Venkata Aneesha – Dataset collection, research, documentation

Step-2: Brainstorm, Idea Listing and Grouping

Ideas:

- Build Flask backend serving trained model

- Use transfer learning (e.g., MobileNetV2)

- Create React frontend to upload images

- Show prediction result and confidence

- Use Tailwind CSS for modern UI

- Deploy backend on Render, frontend on Vercel

- Add about and contact pages

- Optionally, add user login and history

Grouping:

- Core functionality: Model training, Flask API, React frontend for prediction

- UI/UX: Tailwind styling, modern design

- Deployment: Render + Vercel

- Additional features: Login, history

Step-3: Idea Prioritization

Priority	Ideas
High	Model training & evaluation, Flask API, React frontend to upload images & show predictions
Medium	Tailwind CSS styling, about/contact pages
Low	User login system, prediction history feature

Reference Link:

https://www.mural.co/templates/brainstorm-and-idea-prioritization

Poultry Disease Detection Using Transfer Learning

STEP 1
PROBLEM STATEMENT & TEAM

Design and develop AI web app to classify paultry images (Healthy, Cocd dicals Salmonella, New Castle Disease)

Kandera Naga Prudhvi Sai

Poondia Divya Lakshmi

Medida Gangothri

Pasupuleti Venkata Anesha

STEP 2
BRAINSTORM & GROUP IDEAS

Flask backend

Transfer learning model

React frontend upload

Tailwind CSS UI
Remiiniction@l Replleyment

Optional: Login & history

STEP 3
PRIORITIZATION

High

Model & APi & Prediction UI

Medium

Styling & extra pages

Low

Login & history