

Project Design Phase
Proposed Solution Template

Date	27 June 2025
Team ID	LTVIP2025TMID40145
Project Name	Transfer Learning-Based on Classification of Poultry Diseases for Enhanced Health Management
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Poultry farmers face difficulty in identifying diseases at early stages, which leads to delayed treatment, increased mortality, and economic losses.
2.	Idea / Solution description	The project proposes an AI-based web application that detects poultry diseases from images using deep learning (ResNet50). It provides instant diagnosis to users.
3.	Novelty / Uniqueness	Combines pre-trained deep learning models with a user-friendly web interface specifically targeted at poultry disease classification — a niche yet impactful area.
4.	Social Impact / Customer Satisfaction	Empowers rural farmers with early detection tools, reduces disease spread, boosts poultry health, and increases income and food security.
5.	Business Model (Revenue Model)	Initial free access; revenue from advanced features like health monitoring, veterinary consultation, app integrations, and B2B licensing to poultry businesses.
6.	Scalability of the Solution	Can be expanded to mobile apps, support multiple livestock diseases, integrate with IoT devices (smart farms), and scale across regions with multilingual support.