**Project Design Phase**

**Proposed Solution Template**

|  |  |
| --- | --- |
| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID34246 |
| 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** |
|  | 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. |
|  | 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. |
|  | 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. |
|  | Social Impact / Customer Satisfaction | Empowers rural farmers with early detection tools, reduces disease spread, boosts poultry health, and increases income and food security. |
|  | Business Model (Revenue Model) | Initial free access; revenue from advanced features like health monitoring, veterinary consultation, app integrations, and B2B licensing to poultry businesses. |
|  | 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. |