**Proposed Solution**

|  |  |
| --- | --- |
| **Date** | **23 June 2025** |
| **Team ID** | **LTVIP2025TMID43223** |
| **Project Name** | **Transfer Learning-Based Classification of Poultry Diseases for Enhanced Health Management** |
| **Maximum Marks** | **2 Marks** |

|  |  |  |
| --- | --- | --- |
| **S.no.** | **Parameter** | **Description** |
| 1. | Problem Statement (Problem to be solved) | Poultry farmers, especially in rural areas, face difficulties in early disease detection due to lack of veterinary access, leading to high bird mortality and economic loss. |
| 2. | Idea / Solution description | A Transfer Learning-based system integrated into a mobile-compatible web app that classifies poultry diseases from images and provides treatment suggestions. |
| 3. | Novelty / Uniqueness | Combines AI-powered image classification with instant disease diagnosis and treatment suggestions in a lightweight, mobile-friendly web application without the need for local veterinary services. |
| 4. | Social Impact / Customer Satisfaction | Enables farmers to detect diseases early, reducing bird mortality, improving farm profitability, and empowering rural communities with accessible AI tools. |
| 5. | Business Model (Revenue Model) | Free initial service for awareness, followed by freemium access for advanced analytics, disease history tracking, and paid vet consultation modules in future phases. |
| 6. | Scalability of the Solution | Highly scalable — can be extended to detect more poultry and livestock diseases, integrate remote vet consultations, multilingual support, and weather-based health alerts. |