**Project Design Phase**

**Proposed Solution**

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| Date | 30 June 2025 |
| Team ID | LTVIP2025TMID35759 |
| Project Name | Transfer Learning-Based Classification of Poultry Diseases for Enhanced Health Management |
| Maximum Marks | 2 Marks |

**Proposed Solution:**

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Poultry farmers face difficulties in identifying diseases early due to lack of expertise, delayed diagnostics, and limited access to veterinary support. This often results in preventable outbreaks, increased mortality, and economic loss |
|  | Idea / Solution description | The project proposes a machine learning-based diagnostic tool using transfer learning that can classify poultry diseases accurately from images or symptom data. This tool will assist farmers in early identification and prompt treatment. |
|  | Novelty / Uniqueness | Using pre-trained deep learning models for poultry disease classification is a novel approach. It leverages minimal data with high efficiency, enabling quicker deployment and improved accuracy in rural environments. |
|  | Social Impact / Customer Satisfaction | The solution will reduce livestock loss, improve animal welfare, and enhance the livelihood of farmers. Easy-to-use mobile/web interfaces will ensure high adoption and satisfaction rates among end users. |
|  | Business Model (Revenue Model) | The solution can be offered as a freemium model: basic disease detection features for free, and advanced analytics, veterinarian access, or premium diagnostics as paid services. |
|  | Scalability of the Solution | The solution can be offered as a freemium model: basic disease detection features for free, and advanced analytics, veterinarian access, or premium diagnostics as paid services. |