**Project Design Phase**

**Proposed Solution Template**

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| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID32415 |
| Project Name | Poultry Disease Classification for Health Management |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

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

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Early detection of poultry diseases is difficult for farmers due to a lack of veterinary access, leading to huge economic losses and poultry deaths. |
|  | Idea / Solution description | The solution is an AI-based web app that uses transfer learning to classify poultry diseases from chicken images. Farmers can upload images and get instant disease detection results along with suggestions for remedies or treatments. |
|  | Novelty / Uniqueness | Our solution uses a lightweight deep learning model (MobileNetV2) to run efficiently on web or mobile. It's affordable, fast, and accessible even in remote areas. |
|  | Social Impact / Customer Satisfaction | It helps poultry farmers reduce livestock losses, improve productivity, and cut costs related to manual veterinary visits. This ensures food security and boosts farmers' income. |
|  | Business Model (Revenue Model) | Freemium model: Basic disease detection for free; premium features like detailed reports, veterinary consultations, and health tips available via subscription or pay-per-use. |
|  | Scalability of the Solution | The solution can be extended to detect more poultry diseases, support other livestock like goats or cows, and expand globally to help farmers in various regions. |