

Project Design Phase
Problem – Solution Fit Template

Date	28 January 2025
Team ID	LTVIP2026TMIDS53438
Project Name	Dog breed Prediction Using Transfer Learning
Maximum Marks	2 Marks

Problem – Solution Fit Template

The Problem–Solution Fit means identifying a real problem faced by customers and ensuring that the developed solution effectively solves that problem. It validates that the product addresses genuine user needs and provides measurable value. It helps entrepreneurs and innovators understand behavioral patterns and recognize what works and why.

Problem Statement

Many pet owners, animal shelters, and veterinary professionals face difficulty in accurately identifying dog breeds from images. Manual breed identification requires expertise and can often be inaccurate or time-consuming. Misidentification may lead to improper care, training, or health management.

Proposed Solution

The proposed solution is a Deep Learning-based web application that uses Transfer Learning (VGG19) to automatically classify dog breeds from uploaded images.

The system allows users to:

- Upload a dog image
- Process the image using a trained CNN model
- Receive instant and accurate breed prediction results

This AI-based approach eliminates manual guesswork and provides quick, reliable results.

Target Users

- Pet Owners
 - Animal Shelters
 - Veterinary Clinics
 - Dog Enthusiasts and Researchers
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Purpose

- Solve complex breed identification problems efficiently.
- Provide fast and accurate AI-based predictions.
- Increase adoption through a simple and user-friendly web interface.
- Build user trust by solving frequent and practical problems.
- Improve the existing identification process for the target group.