

Project Design Phase-I  
Proposed Solution Template

Date	14 October 2023
Team ID	Team - 591888
Project Name	Dog Breed Identification Using Transfer Learning
Maximum Marks	4 Marks

Proposed Solution Template:

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

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Problem: The challenge is to provide dog owners and professionals with a reliable and user-friendly system for accurately identifying the breed of a dog from images.
2.	Idea / Solution description	Idea: Develop an AI-powered mobile app that allows users to take pictures of their dogs and instantly receive accurate breed identification. The app will also offer additional breed-related information, such as characteristics, history, and care.
3.	Novelty / Uniqueness	Novelty: This project combines the power of deep learning (transfer learning with VGG19) with a user-friendly mobile app, making breed identification accessible to a broad audience. It includes features like educational outreach, veterinary integration, and data privacy assurance, setting it apart from other breed identification tools.
4.	Social Impact / Customer Satisfaction	Social Impact: The project empowers dog owners with valuable information about their pets, improves veterinary diagnostics, and supports responsible pet ownership. Customer Satisfaction: Users will experience enhanced satisfaction through accurate and quick breed identification, and veterinarians will benefit from a diagnostic tool, potentially leading to improved pet care.

5.	Business Model (Revenue Model)	Business Model: Revenue can be generated through a freemium model. Basic breed identification can be offered for free, while premium features, such as health insights and extended breed information, can be available through a subscription. Additional revenue streams can come from partnerships with veterinary clinics and educational programs.
6.	Scalability of the Solution	Scalability: The solution is highly scalable. It can expand to include more dog breeds, additional species, and even localization into various languages. Partnering with veterinary clinics and educational institutions can further scale the impact and reach of the project. Additionally, a growing user base can be monetized through premium services and advertising opportunities, contributing to scalability.