


# Project Report Format

## 1. INTRODUCTION

### 1.1 Project Overview

 Project Overview: Transfer Learning-Based Poultry Disease Classification

This project leverages Transfer Learning to create an AI-based diagnostic system capable of classifying poultry diseases into four categories:

Salmonella

New Castle Disease

Coccidiosis

Healthy

The goal is to provide farmers, researchers, and veterinarians with a smart, accessible tool to improve poultry health management. By uploading images (e.g., of affected poultry or symptoms), users receive an instant prediction of the disease and recommended treatment guidelines.

This solution not only reduces the dependency on immediate veterinary presence but also prevents outbreaks, lowers mortality, and improves farm productivity through early detection and treatment.

### 1.2 Purpose

The primary purpose of this project is to **enhance poultry health management** through the use of **AI-driven image classification** techniques. By leveraging **transfer learning models**, the system enables fast, accurate, and accessible detection of common poultry diseases.

## 2. IDEATION PHASE

### 2.1 Problem Statement

### 2.2 Empathy Map Canvas

## 2.3 Brainstorming

### 3. REQUIREMENT ANALYSIS

#### 3.1 Customer Journey map

#### 3.2 Solution Requirement

#### 3.3 Data Flow Diagram

#### 3.4 Technology Stack

### 4. PROJECT DESIGN

#### 4.1 Problem Solution Fit

#### 4.2 Proposed Solution

#### 4.3 Solution Architecture

### 5. PROJECT PLANNING & SCHEDULING

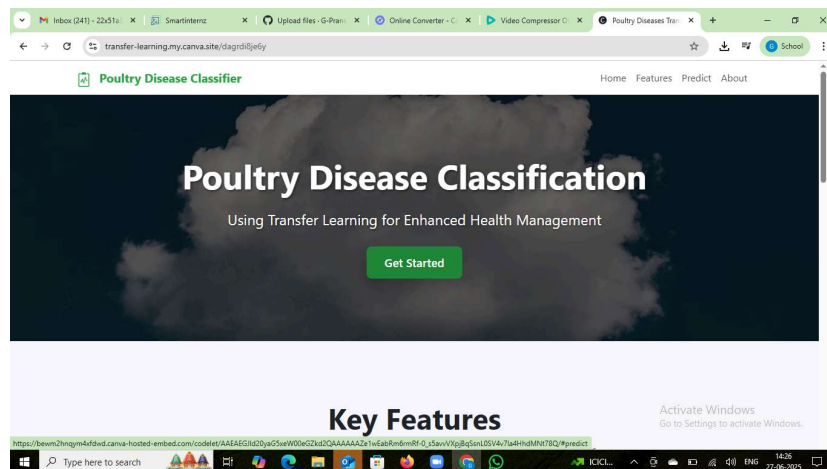
#### 5.1 Project Planning

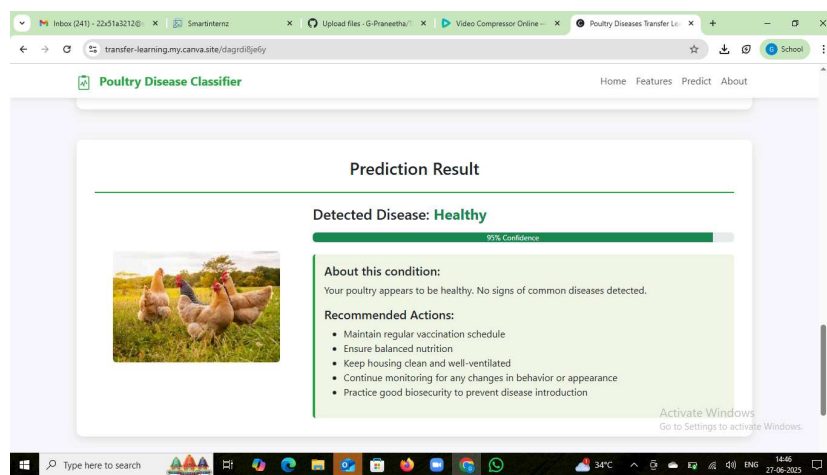
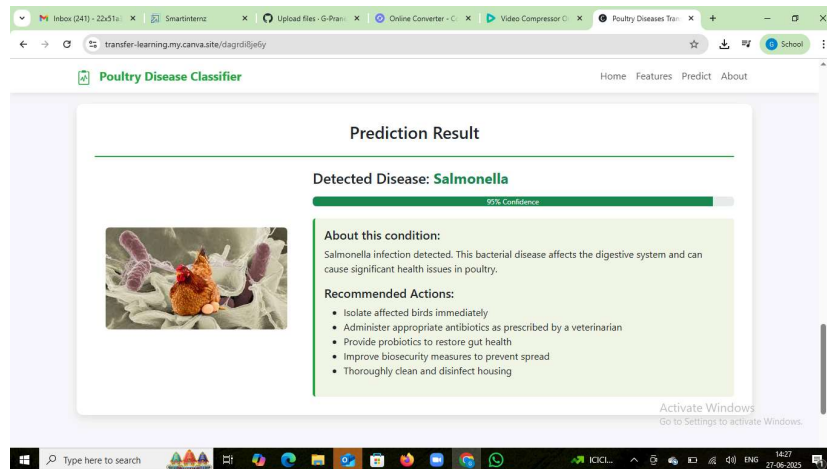
### 6. FUNCTIONAL AND PERFORMANCE TESTING

#### 6.1 Performance Testing

### 7. RESULTS

[https://drive.google.com/file/d/18fAt\\_SZ1YUMBi5auRV7-Hqbatg2kWkUq/view?usp=drive\\_link](https://drive.google.com/file/d/18fAt_SZ1YUMBi5auRV7-Hqbatg2kWkUq/view?usp=drive_link)





## 8. ADVANTAGES & DISADVANTAGES

## 9. CONCLUSION

## 10. FUTURE SCOPE

## 11. APPENDIX

Source Code(if any)

Dataset Link P