Customer Problem Statement – Poultry Disease Detection Using Transfer Learning

Date	Date: 26 June 2025
Team ID	Team ID: LTVIP2025TMID44725
Project Name	Poultry Disease Detection Using Transfer Learning
Maximum Marks	2 Marks

Problem Statement (PS-1)

I am (Customer)	A poultry farmer managing a medium-sized farm
I'm trying to	keep my chickens healthy and detect diseases early
But	I lack access to quick and reliable disease detection tools
Because	current manual inspections are slow, need veterinary expertise, and can be costly
Which makes me feel	worried about sudden disease outbreaks, financial loss, and farm reputation

Problem Statement (PS-2)

I am (Customer)	A farm technician or farm owner concerned about flock health
I'm trying to	identify whether a chicken is healthy or infected as quickly as possible
But	I don't have AI expertise or advanced tools to analyze images
Because	existing diagnostic processes are manual, time-consuming, and reactive
Which makes me feel	anxious about missing early warning signs and potentially losing chickens

Reference: https://miro.com/templates/customer-problem-statement/

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Problem Statement – Poultry Health App

Problem Statement

Poultry farmers often struggle to identify and manage diseases in their flock, leading to decrease productivity and increased mortality.

Breaking Down the Problem

- Poultry diseases can initialy impact flock productivity and farmer livellhoods
- Diseases are often difficult to visually diagnose based on symptems alone
- Manual diagnosis made by farmers can lead to misidentification of diseases

Solution

Develop a user-friendlying mobile app that allows poultry farmers to upload images of their birds, which will be analyzed by using an existing trained deep learn model to provide rapid and accurate disease identificat·

Technology Stack

- **TensorFlow** for chicken disease identification
- **React** frontend for the app
- **Python** backend with Fiask as wleb serverinterface

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Combined Table Format

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A poultry farmer managing a medium-sized farm	keep my chickens healthy and detect diseases early	I lack access to quick and reliable disease detection tools	current manual inspections are slow, need veterinary expertise, and can be costly	worried about sudden disease outbreaks, financial loss, and farm reputation
PS-2	A farm technician or farm owner concerned about flock health	identify whether a chicken is healthy or infected as quickly as possible	I don't have AI expertise or advanced tools to analyze images	existing diagnostic processes are manual, time-consuming, and reactive	anxious about missing early warning signs and potentially losing chickens