Agile Sprint Plan Summary – Poultry Disease Classification

Project Title: Transfer Learning-Based Classification of Poultry Diseases for Enhanced Health Management
Team Size: 4 Members
Methodology: Agile Scrum
Sprint Duration: 5 Days per Sprint

👥 Team Members & Roles

1. **Team Lead / ML Engineer** – Oversees overall development, leads model design
2. **Data Engineer** – Handles data collection, cleaning, preprocessing
3. **Backend Developer** – Flask integration, API development
4. **Frontend Developer** – Designs UI using HTML/CSS, connects frontend with backend

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📅 Sprint Breakdown

✅ Sprint 1 (5 Days) – *Data Pipeline Development*

Epic: Data Preparation

Task (Story)	Story Points
Collection of Poultry Disease Data	2
Loading Data into the Environment	1
Handling Missing Values	3
Handling Categorical Variables	2

Sprint 1 Total Story Points: 8

✅ Sprint 2 (5 Days) – *Modeling & Deployment*

Epic 1: Model Development

Task (Story)	Story Points
Model Building	5
Model Testing	3

Epic 2: Web Deployment

Task (Story)	Story Points
Building HTML Pages	3
Flask Deployment	5

📌 **Sprint 2 Total Story Points: 16**

📊 Summary

Metric	Value
Total Story Points	24 (8 + 16)
Number of Sprints	2
Velocity	**12 Story Points per Sprint**

📌 Project Overview

The project aims to create a mobile-friendly system that allows poultry farmers to upload images of sick birds and receive real-time disease detection using an AI model based on transfer learning. This tool helps prevent losses by providing early and accessible diagnosis, especially in low-resource areas. It includes data collection, model development, and deployment through a simple web interface using Flask.