**User Acceptance Testing (UAT) Template**

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| Date | 25 june 2025 |
| Team ID | LTVIP2025TMID45999 |
| Project Name | Transfer learning based classification of poultry diseases for enhanced health management |
| Maximum Marks |  |

**Project Overview:**

**Project name:**

Transfer learning based classification of poultry diseases for enhanced health management

**Project Description:**

This notebook implements a poultry disease classification system using ResNet-18, DenseNet121, and VGG16 architectures in PyTorch. The goal is to accurately classify poultry diseases based on a curated dataset of fecal images. By comparing the performance of these three CNN models, we aim to determine which one performs best for this task.

Dataset Description

The Poultry Pathology Visual Dataset contains a diverse collection of poultry fecal images categorized into four classes:

* Coccidiosis
* Healthy
* Newcastle Disease
* Salmonella

Key Steps

1. Data Loading and Preprocessing: The dataset is loaded and preprocessed.
2. Model Definition: ResNet-18, DenseNet121, and VGG16 architectures are defined and configured for poultry disease classification.
3. Model Training: Each model is trained on the same training set.
4. Model Evaluation: Models' performance is assessed on the test set.
5. Comparisonof Results: Graphs are used to compare the training process, accuracy, and loss for each model.

Testing Period: 28 june 2025

**Testing Scope:**

Here in this project we have downloaded the data set from kaagle by creating an API token .

Several training models were applied on that the models are to be tested.

**Testing Environment:**

URL/Location: google colab

Credentials (if required): manju173(GIT USER NAME)

**Sign-off:**

Tester Name: HYMAVATHI LAVETI

Date: 27 june 2025

**Notes:**

* Ensure that all test cases cover both positive and negative scenarios.
* Encourage testers to provide detailed feedback, including any suggestions for improvement.
* Bug tracking should include details such as severity, status, and steps to reproduce.
* Obtain sign-off from both the project manager and product owner before proceeding with deployment.