User Acceptance Testing (UAT) Template

Date	26 June 2025
Team ID	LTVIP2025TMID44653
Project Name	Transfer Learning-Classification Of Poultry Diseases For Enhanced Health Management
Maximum Marks	2 Marks

Project Overview:

Project Name: Transfer Learning-Classification Of Poultry Diseases For Enhanced Health Management

Project Description: This project involves developing a deep learning-based image classification model to detect and classify poultry diseases such as Coccidiosis, Salmonella, and Newcastle Disease from images of chickens. It uses pre-trained CNN models like EfficientNet and ResNet to improve classification accuracy and integrates a Flask web interface for user interaction.

Project Version: v1.0

Testing Period: 17 June 2025 to 26 June 2025

Testing Scope:

List of Features and Functionalities to be Tested:

1. Image upload functionality
2. Disease prediction accuracy using .pt model
3. Real-time result display on Flask web app
4. Handling of invalid inputs (non-image files, corrupted images)
5. Display of model confidence/probability score
6. Mobile responsiveness of web interface

List of User Stories or Requirements to be Tested:

1. As a poultry farmer, I want to upload an image and get the predicted disease name.
2. As a vet, I want a system that can identify diseases with high accuracy.
3. As a user, I want the system to warn me if the image is invalid or unreadable.

Testing Environment:

URL/Location: http://127.0.0.1:5000/

Credentials (if required): Not Required

Test Cases:

Test Case ID	Test Scenario	Test Steps	Expected Result	Actual Result	Pass/Fail

TC-001	Upload valid chicken image	Open app → Upload valid image → Click Submit	Disease name and confidence displayed	As Expected	Pass
TC-002	Upload non-image file	Upload .txt/.pdf file	Show "Invalid file type" message	Error Handles	Pass
TC-003	Upload corrupted image	Upload broken .jpg file	Show "Cannot read image" message	Message Dispalyed	Pass
TC-004	Empty form submisson	Click Submit without file	Show "Please upload an image" message	Prompt shown	Pass
TC-005	Upload large resolution image	Upload HD image	App resizes and classifies correctly	Successfully done	Pass
TC-006	Disease prediction confidence > 90%	Upload clearly labeled disease image	Confidence shown above 90%	Accuracy validated	Pass
TC-007	Web UI responsiveness	Open on mobile browser	Responsive layout	UI adjusts well	Pass

Bug Tracking:

Bug ID	Bug Description	Steps to reproduce	Severity	Status	Additional feedback
BG-001	Incorrect disease name returned	Upload similar-looking image under poor lighting	Medium	Open	May require data balancing

BG-002	Model loads slowly	Start server first time	Low	In Progress	Consider model quantization
BG-003	Page not loading on Firefox	Open on older Firefox version	Good	Closed	Now works after update

Sign-off:

Tester Name: Donda Nagamma

Date: 26 June 2025

Signature: D.Nagamma

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.