

User Acceptance Testing (UAT) Template

Date	28 June 2025
Team ID	LTVIP2025TMID41715
Project Name	Transfer Learning-Based Classification of Poultry Diseases for Enhanced Health Management
Maximum Marks	4 Marks

Project Overview:

Project Name: Transfer Learning-Based Classification of Poultry Diseases for Enhanced Health Management

Project Description: This project utilizes transfer learning techniques on a curated dataset of poultry disease images to classify various poultry diseases such as Newcastle Disease, Fowlpox, and Coccidiosis. The model aims to assist poultry farmers and veterinarians in early disease detection, reducing mortality and improving productivity.

Project Version: 1.0

Testing Period: 20 June 2025 to 27 June 2025

Testing Scope:

The scope of User Acceptance Testing (UAT) for this project includes the end-to-end validation of functionalities and outputs of the poultry disease classification system powered by transfer learning. The focus areas include:

- 1. Model Functionality Validation
 - Verifying the accuracy and reliability of disease predictions.
 - Testing the confidence scores and the behavior on edge cases (e.g., blurry or low-quality images).
- 2. User Interface and Workflow
 - Checking the ease of image upload and classification result display.
 - Verifying the responsiveness and usability of the dashboard and reports.
- 3. Data Visualization and Dashboard Filters
 - Validating dynamic updates based on user-selected filters (e.g., disease type, confidence score, date).
 - Ensuring graphs and metrics are accurate and reflective of real-time model predictions.
- 4. Historical Data Tracking
 - Verifying the correct logging of prediction results with associated metadata (e.g., date, disease type, image reference).
- 5. Error Handling and Edge Case Management

- Uploading unsupported file types to check for error messages.
- Testing model behavior with low-resolution, irrelevant, or corrupted images.

6. Security and Access Control

- Validating login credentials and access restrictions to authorized users only.

7. Performance Metrics

- Assessing model inference time for various image sizes.
- Ensuring acceptable response time for dashboard updates.

Testing Environment:

URL/Location: <http://localhost:8501>

Credentials (if required): Username – Reddtmanoj304@Gmail.Com; Password : X9hTCjeu

Test Cases:

Test Case ID	Test Scenario	Test Steps	Expected Result	Actual Result	Pass/Fail
TC-001	Upload poultry disease image and classify	1. Login 2. Upload image 3. View prediction	Model classifies correctly with confidence score	Prediction: Newcastle Disease (95% confidence)	Pass
TC-002	View disease history report	1. Login 2. Navigate to history tab	Past predictions are listed with date and type	Report visible and accurate	Pass
TC-003	Test invalid image upload	1. Upload a non-image file	Show error message	Error: Invalid file type	Pass
TC-004	Check dashboard filters	1. Go to dashboard 2. Apply disease filter	Dashboard updates with relevant graphs	Filters work as expected	Pass
TC-005	Low confidence prediction warning	1. Upload blurry image	System shows low confidence alert	Alert displayed: "Low confidence prediction"	Pass

Bug Tracking:

Bug ID	Bug Description	Steps to reproduce	Severity	Status	Additional feedback
BG-001	Dashboard doesn't update on applying date filter	1. Go to dashboard 2. Apply date range	Medium	Open	Needs dynamic refresh
BG-002	Model takes long time on large images	1. Upload 4MB image	High	In Progress	Optimize model loading time

Sign-off:

Tester Name: Reddy Manoj Kumar

Date: 28 June 2025

Signature: R. Manoj Kumar

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.