## **Functional & Performance Testing Template**

## **Transfer Learning-Based Poultry Disease Detection Model**

Date	24 Jun 2025	
Team ID	LTVIP2025TMID33049	
Project Name	Transfer Learning-Based Classification of Poultry	
	Diseases for Enhanced Health Management	
Maximum Marks	4 marks	

## **Test Scenarios & Results:**

Test Case ID	Scenario	Test Steps (How to test)	Expected Result	Actual Result	Pass/ Fail
FT-01	Fecal Disease Classification	Open the app upload a poultry feces image click "Detect" check the result	The model correctly shows the name of the disease (Coccidiosis, Salmonella)	Model identified Coccidiosis in sample image with 96% accuracy	Pass
FT-02	Thermography Validation	Upload a thermal image of a sick bird click detect observe the prediction	The model detects early signs of disease and shows a result with high accuracy	Thermal image detected infection signs with 94% confidence	Pass
FT-03	Confidence Score Check	Submit any valid poultry image wait for prediction see confidence score	The predicted result includes a confidence score (e.g., 92%)	Confidence score displayed as 91% next to prediction	Pass
FT-04	Misleading Input Testing	Upload blurred or unrelated image (e.g., object, random photo) click detect	The model gives an error or "Cannot detect disease" message	Unrelated image gave "Invalid image" message	Pass
PT-01	Real-Time Field Speed Test	Use mobile phone on a farm upload image use stopwatch to measure time	The result is displayed within 3 seconds	Model gave result in 2.7 seconds on mobile device	Pass
PT-02	Battery & l Efficie	Run model for 10–15 mins mobile check <sup>ମୁକ୍</sup> ମ୍ୟୁଞ୍ଜating, battery <sup>nc</sup> ଧ୍ୟrain, RAM usage	The model runs smoothly without overheating or fast battery drain	No heating, battery dropped 4% in	Pass 15 mins
PT-03	Rural Network Tolerance	Switch off mobile data upload image in app try detecting disease	The model works offline or shows a helpful offline message	Model worked offline and gave results without internet	Pass