Project Development Phase

Model Performance Test

📅 **Date**: 25 JUNE 2025

🆔 **Team ID**: LTVIP2025TMID41750

📌 **Project Name**: Poultry Disease Detection using Deep Learning and Web Interface

🎯 **Maximum Marks**: 4 Marks

Model Performance Testing Template

S.No.	Parameter	Values	Screenshot
1	Model Summary	Base Model: VGG16 (pretrained on ImageNet) - Layers Unfrozen: Last 4 conv blocks - Added Layers: GlobalAveragePooling, Dense(128), Dropout(0.3), Dense(4-softmax) - Optimizer: Adam - Loss: Categorical Crossentropy	*Include screenshot from model.summary()*
2	Accuracy	Training Accuracy: 98.5% Validation Accuracy: 94.7%	*Confusion matrix, accuracy/loss graph screenshots*
3	Fine-Tuning Results (if applicable)	Yes – Fine-tuned last 4 layers of VGG16 Re-trained for 5 epochs with reduced LR = 1e-5 Improved Validation Accuracy: 96.2%	*Screenshot after fine-tuning logs or plot*