Functional & Performance Testing Template

Model Performance Test

Date	27 June 2025
Team ID	LTVIP2025TMID60885
Project Name	"Smart Sorting: Transfer Learning for Identifying Rotten Fruits and Vegetables"
Maximum Marks	

Test Scenarios & Results

Test Case ID   Scenario (What to test)   Test Steps (How to test)   Expected Result   Actual Result   Pass/Fail

FT-01 Image Input Validation (e.g., image type/size)   Upload valid and invalid images (e.g., JPG, PNG, corrupted files)   Valid images accepted, errors shown for invalid formats

FT-02 Model Prediction Accuracy   Input known images (rotten/fresh) and verify prediction   Model classifies correctly based on training

FT-03 UI Functional Check   Use the UI to upload images, click "Classify"   UI responds correctly, and image is sent for classification

FT-04 API Connection Check   Ensure API endpoints respond and return classification results   API responds with 200 OK and proper result

PT-01 Inference Time Test   Measure time taken from image upload to classification result   Should respond in under 3 seconds

PT-02 Load Test – Simultaneous Classifications   Perform multiple classifications concurrently   No major slowdown or failures in response

PT-03 Large File Handling (e.g., high-res images) Upload large images (e.g., >5MB) and test system stability   Should not crash, may show optimized or resized version