Functional & Performance Testing Template

Model Performance Test

Date	21 February 2025
Team ID	LTVIP2025TMID35093
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	Upload valid and invalid fruit/vegetable images	Valid images accepted, invalid formats rejected	System accepts .jpg/.png, rejects .exe/.txt	Pass
FT-02	Classification Accuracy	Upload sample image of rotten fruit	Model classifies as “rotten”	Model correctly classifies rotten sample	Pass
FT-03	Sorting Mechanism	Place mixed produce on belt, activate sorter	Rotten produce is separated from fresh	Proper mechanical sorting observed	Pass
FT-04	API Integration	Trigger model through API call	Model returns prediction (fresh/rotten) in JSON	API responds correctly with prediction	Pass
PT-01	Inference Response Time	Time how long the model takes for prediction	Response time < 3 seconds	Average response time: 1.8 seconds	Pass

PT-02	Concurrent Image Upload	Upload multiple images at once	Model handles uploads without crash or lag	Successfully handled 10 parallel uploads	Pass
PT-03	Load Test for Large Batches	Upload 100+ images and test stability	No crashes, all images processed	98 out of 100 processed correctly	Pass