Functional & Performance Testing Template

Model Performance Test

Date	19/05/2025-30/6/2025
Team ID	LTVIP2025TMID45017
Project Name	GrainPalette - A Deep Learning Odyssey In Rice Type Classification Through Transfer Learning
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 rice grain images and invalid (blurred, non-rice) images	Valid inputs accepted, errors for invalid inputs	Matches expected behavior	Pass
FT-02	Model Prediction	Upload a clear image of a rice grain and click "Submit"	Correct rice type prediction is returned	Model predicted rice type correctly	Pass
FT-03	Edge Case Images	Upload rotated, low-light, or partial rice images	Model should still predict accurately or provide an error	Model handled rotated images, gave warnings on poor quality	Pass
FT-04	API Connection Check	Disconnect internet during prediction	App should show a connection error	App displayed "Connection error" message	Pass
PT-01	Prediction Response Time	Measure time taken to generate prediction	Response within 2 seconds	Average response time: 1.5 seconds	Pass
PT-02	Concurrent Requests	Submit multiple images from different devices simultaneously	Model should handle concurrent requests without crashing	Handled 10 concurrent requests	Pass
PT-03	Server Load Test	Upload large batches of images sequentially	Should process without performance degradation	Model maintained performance for up to 100 images	Pass