Functional & Performance Testing Template

Model Performance Test

Date	29 June 2025
Team ID	LTVIP2025TMID45505
Project Name	CleanTech: Transforming Waste Management with 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 and invalid image formats	Valid images accepted, invalid formats rejected	As expected	Pass
FT-02	Image Size Handling	Upload images of varying dimensions	All images resized and processed correctly	As expected	Pass
FT-03	Waste Category Prediction	Upload image and trigger prediction	Correctly predicts biodegradable/recyclable/trash	As expected	Pass
FT-04	API Connection Check	Ensure API key is valid and call model endpoint	API responds successfully	As expected	Pass
PT-01	Response Time Test	Measure time to receive prediction after uploading image	Response time under 2 seconds	As expected	Pass
PT-02	Concurrent API Call Test	Send multiple image inputs in parallel	Model handles load without crashing	As expected	Pass
PT-03	Batch Upload Performance	Upload a batch of images for simultaneous prediction	All images processed and predicted correctly	As expected	Pass