# **Functional & Performance Testing Template**

**Model Performance Test**

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| 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 |