# **Functional & Performance Testing Template**

**Model Performance Test**

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| Date | 24 February 2025 |
| Team ID | LTVIP2025TMID39799 |
| Project Name | CleanTech: Transforming Waste Management with Transfer Learning |
| Maximum Marks |  |

## **Test Scenarios & Results**

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| **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 blood cell images | Valid inputs accepted, invalid ones rejected | As expected | Pass |
| **FT-02** | Label Validation | Check if selected class label matches image during manual override | Correct labels are accepted, invalid labels raise warning | As expected | Pass |
| **FT-03** | **Blood Cell Classification Output** | Upload image, click “Classify” | Predicted label shown with probability | As expected | Pass |
| **FT-04** | Model Loading & Initialization | Start the application, check if model loads correctly | Model loads without error | Loaded successfully | Pass |
| **PT-01** | Prediction Response Time | Measure time between input and output | Should be under 2 seconds | 1.6 seconds | Pass |
| **PT-02** | Load Handling (Multiple Inputs) | Upload and classify a batch of 10–20 images simultaneously | System handles batch without crash | Handled smoothly | Pass |
| **PT-03** | File Upload Load Test (e.g., PDFs) | Upload several high-resolution images | No crash or memory overload | Stable performance | Pass |