# Functional & Performance Testing Template

## Model Performance Test

| 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, lowlight, 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 |
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| Date | 19/05/2025-30/6/2025 |
|---|---|
| Team ID | LTVIP2025TMID39191 |
| Project Name | GrainPalette - A Deep Learning Odyssey In Rice Type Classification Through Transfer Learning |
| Maximum Marks | |

**Test Scenarios & Results**