# **Functional & Performance Testing Template**

**Model Performance Test**

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| Date | 15 April 2025 |
| Team ID | SWTID1743610409 |
| Project Name | Project – Tune Trails |
| 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** | **User Login Validation** | Enter valid/invalid emails & passwords | Valid logins succeed; invalid show errors | Email delivered (5s delay) | Pass |
| **FT-02** | **Playback Controls** | Play/pause/skip songs | Smooth transitions, no buffering | Skipping lags (~1s) on weak network | Fail |
| **FT-03** | **Playlist Creation** | Create/edit/delete playlists | Changes save instantly | Works offline (cached) | pass |
| **FT-04** | API Connection Check | Check if API key is correct and model responds | API responds successfully | Fallback to local DB | pass |
| **PT-01** | Response Time Test | Measure cold/warm start times | Should be under 3 seconds |  | Partial |
| **PT-02** | API Speed Test | Send multiple API calls at the same time | API should not slow down | <5% error rate, latency <500ms | Pass |
| **PT-03** | **Streaming Quality Switch** | Toggle between Low/High quality mid-playback | Should work smoothly without crashing | Seamless bitrate adjustment | Pass |