# **Functional & Performance Testing Template**

**Model Performance Test**

|  |  |
| --- | --- |
| Date | 27 JUNE 2025 |
| Team ID | LTVIP2025TMID20276 |
| Project Name | Citizen AI – Intelligent Citizen Engagement Platform |
| Maximum Marks |  |

## **Test Scenarios & Results**

✅ Functional Testing

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Scenario (What to test)** | **Test Steps (How to test)** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| FT-01 | User Message to Chatbot | Enter a civic question into chat interface | GPT-2 model generates relevant response | Bot provides response | ✅ Pass |
| FT-02 | Feedback Sentiment Detection | Submit feedback like “Garbage not cleared” | Correct sentiment tag appears (Negative) | Detected as Negative | ✅ Pass |
| FT-03 | Issue Submission | Report an issue with category and description | Confirmation message shown and data logged | Confirmed | ✅ Pass |
| FT-04 | Admin Login – Valid & Invalid Credentials | Attempt login with correct and incorrect credentials | Successful login / error message | As expected | ✅ Pass |
| FT-05 | Dashboard Data Load | Access sentiment/concern dashboard after data input | Charts update automatically with new entries | Chart refreshes live | ✅ Pass |

**🚀 Performance Testing**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Scenario (What to test)** | **Test Steps (How to test)** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| PT-01 | Chat Response Time | Send multiple user queries sequentially | Replies returned within 2 seconds | Avg: 1.4 seconds | ✅ Pass |
| PT-02 | Simultaneous Concern Submissions | Submit 5+ concern forms in parallel (multi-tab or tool) | Server handles without crashing | No crashes, all captured | ✅ Pass |
| PT-03 | Admin Dashboard Load Time | Open dashboard with 10+ records populated | Load and render within 3 seconds | Rendered in 2.1 seconds | ✅ Pass |
| PT-04 | Sentiment Analyzer Accuracy (Edge Case) | Submit neutral/mixed feedback statements | Must detect “Neutral” sentiment | 80% accurate | ⚠️ Partial |
| PT-05 | Server Stability under Repeated Chat + Submit | Use stress test with looping civic queries and reports | No memory leaks or crashes | Stable throughout | ✅ Pass |