# **Functional & Performance Testing Template**

**Model Performance Test**

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| Date | 21 February 2025 |
| Team ID | LTVIP2025TMID35138 |
| Project Name | Citizen AI – Intelligent Citizen Engagement Platform |
| Maximum Marks |  |

## **Test Scenarios & Results**

| **Test Case ID** | **Scenario (What to test)** | **Test Steps (How to test)** | **Expected Result** | **Actual Result** | **Pass/Fail** |
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| **FT-01** | Text Input Validation (e.g., user query, scheme search) | Enter valid and invalid questions in the chatbot | Valid queries accepted, error/warning for empty or unrelated inputs | Valid queries returned accurate answers; invalid queries showed a warning message | ✅ Pass |
| **FT-02** | Form Input Validation (e.g., location, age input) | Provide valid/invalid inputs in location/age fields | Accepts correct values, rejects incorrect formats or empty fields | Input fields validated correctly; invalid inputs blocked with hints | ✅ Pass |
| **FT-03** | AI Chat Response Accuracy | Ask government scheme-related questions | Returns correct, relevant, and meaningful answers | Chatbot gave accurate and helpful responses based on public schemes | ✅ Pass |
| **FT-04** | API Connection with IBM Watson/Granite | Verify if AI model responds with valid API key | Response received successfully from model | API connected successfully; valid key returned expected output | ✅ Pass |
| **FT-05** | Multilingual Input | Type a query in regional language (e.g., Hindi/Telugu) | Language detected or proper error shown if unsupported | Hindi supported; Telugu returned graceful fallback message | ✅ Pass |
| **FT-06** | Dashboard Component Visibility | Open dashboard and verify visibility of charts, suggestions, alerts | All elements load properly and show accurate information | Dashboard loaded fully; charts and cards displayed correct data | ✅ Pass |
| **PT-01** | Chat Response Time | Time the AI chatbot from question submission to response | Should respond within 2–3 seconds | Average response time observed: **2.1 seconds** | ✅ Pass |
|  |  |  |  |  |  |
| **PT-02** | Concurrent Request Load | Send multiple user queries simultaneously | System handles load smoothly without timeout | Handled 10+ concurrent queries without slowing down | ✅ Pass |
| **PT-03** | File Upload Robustness (e.g., scheme PDFs) | Upload multiple documents (e.g., guides or policy docs) | Upload and parsing work without crashes | Uploaded 5 PDFs; all processed correctly and displayed relevant content | ✅ Pass |
| **PT-04** | Mobile Responsiveness | Access the app on different screen sizes | Layout adapts to screen size; all elements remain functional | Responsive on mobile, tablet, and desktop views | ✅ Pass |
| **PT-05** | AI Model Failover Handling | Disable internet temporarily and retry model access | Graceful error message displayed | Displayed "Model unavailable, check internet or try later" error gracefully | ✅ Pass |