# Functional & Performance Testing Template

Model Performance Test

Date  
26 June 2025

Team ID  
LTVIP2025TMID34234

Project Name  
SmartSDLC: AI-Enhanced SDLC Automation Platform

Maximum Marks  
2

## 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 | PDF Requirement Classification | Upload PDF with mixed requirements | Requirements correctly classified into SDLC phases | Output grouped under Requirement, Design, etc. | Pass |
| FT-02 | AI Code Generation | Input user story and request code | Python code generated based on story | Flask-based code generated successfully | Pass |
| FT-03 | Bug Fixing | Paste buggy Python code | AI returns corrected code | Fixed code returned with improved syntax | Pass |
| FT-04 | Test Case Generation | Enter code snippet for testing | Relevant unit test cases generated | Pytest-compatible tests returned | Pass |
| FT-05 | Code Summarization | Paste long code block | Summary with logic explanation | Clear summary generated | Pass |
| PT-01 | Model Response Time | Measure time from input to output | Response within 3 seconds | Average ~2.1 seconds | Pass |
| PT-02 | Simultaneous Module Switching | Navigate between modules | No loss of session data | Session maintained via Streamlit | Pass |
| PT-03 | Chatbot State Retention | Chat with assistant, switch tab, return | Chat history retained | Chat preserved across navigation | Pass |