

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

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	Navigate between	No loss of session data	Session maintained	Pass

	Switching	modules		via Streamlit	
PT-03	Chatbot State Retention	Chat with assistant, switch tab, return	Chat history retained	Chat preserved across navigation	Pass