

Functional & Performance Testing Template

Model Performance Test

Date	24 June 2025
Team ID	LTVIP2025TMID38248
Project Name	SmartSDLC - AI-Enhanced Software Development Lifecycle
Maximum Marks	

Test Scenarios & Results:

Test Case ID	Scenario (What to test)	Test Steps (How to test)	Expected Result	Actual Result	Pass/Fail
FT-01	Requirement Classification - PDF Upload & Extraction	Upload a valid/Invalid PDF file	PDF text is successfully extracted, and requirements are categorized into SDLC phases for valid PDF file. Appropriate error message is displayed for invalid PDF file.		
FT-02	AI Code Generator	Input a clear prompt into the "Code Generator" tab and click "Generate Code".	A functional code snippet is generated without test cases or extraneous text.		
FT-03	Bug Fixer	Input a code snippet with a known syntax or logical error into the "Bug Fixer" tab.	The AI identifies and corrects the bug, providing an optimized, fixed version of the code.		
FT-04	Test Case Generator	Input a clear software requirements.	The AI generates relevant test cases based on the provided requirement.		

FT-05	Code Summarizer	Input a Python code snippet into the "Code Summarizer" tab.	The AI provides a human-readable explanation and summary of the code's function and use cases.		
FT-06	Chatbot Assistant	Open the floating chatbot and ask a general SDLC question.	The chatbot provides a concise and accurate answer related to the query.		
PT-01	Response Time Test	Use a timer to check code generation and classification time for a multi-page PDF	Should be under 10-15 seconds		
PT-02	File Upload Load Test	Upload a moderately large PDF (e.g., 5-10 pages) for classification.	PDF processing and classification should work smoothly without crashing the server.		