

Functional & Performance Testing Template

Model Performance Test

Date	21 February 2025
Team ID	LTVIP2025TMID36326
Project Name	Smart SDLC AI Assistant
Maximum Marks	4 Marks

1 Test Scenarios & Results

Test Case ID	Scenario (What to test)	Test Steps (How to test)	Expected Result	Actual Result	Pass/Fail
FT-01	Requirement Input Validation	Enter valid and invalid text requirements in the input field	Valid requirements accepted, errors shown for invalid inputs	[To be filled]	[To be filled]
FT-02	Code Language Selection	Select Python, Java, or C++ for code generation	Selected language is applied to generated code	[To be filled]	[To be filled]
FT-03	Code Generation	Provide valid requirements and click "Generate Code"	Correct code generated in chosen language	[To be filled]	[To be filled]
FT-04	Test Case Generation	Input code and click "Generate Test Cases"	Valid test cases generated for input code	[To be filled]	[To be filled]
FT-05	Bug Detection	Upload code with known errors and run bug detection	Errors identified with fix suggestions	[To be filled]	[To be filled]
FT-06	API Connection Check	Verify API key and send request to xAI API	API responds successfully	[To be filled]	[To be filled]
PT-01	Response Time Test	Measure time for code generation or requirement analysis	Response under 2 seconds	[To be filled]	[To be filled]
PT-02	API Speed Test	Send multiple concurrent API calls	API maintains performance without slow-down	[To be filled]	[To be filled]
PT-03	Code Upload Load Test	Upload multiple code files and process simultaneously	System processes smoothly without crashing	[To be filled]	[To be filled]