

Functional & Performance Testing Template

Model Performance Test

Date	21 February 2025
Team ID	LTVIP2026TMIDS87048
Project Name	Intelligent SQL Querying with LLMs Using Gemini
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	Text Input Validation (e.g., topic, job title)	Enter valid and invalid text in input fields	Valid inputs accepted, errors for invalid inputs	System accepted valid queries and showed warning for empty input	Pass
FT-02	SQL Query Generation	Enter natural language question and click "Generate SQL & Run"	Correct SQL query should be generated	SQL queries generated correctly based on user input	Pass
FT-03	SQL Execution on Database	Run generated SQL query on SQLite database	Query should execute without errors	Queries executed successfully and results displayed	Pass
FT-04	API Connection Check	Check if API key is correct and model responds	API responds successfully	API connected and model responded properly	Pass
PT-01	Response Time Test	Measure time taken for SQL generation	System should handle without crash	Application handled queries smoothly	Pass
PT-02	Multiple Query Handling	Execute multiple queries sequentially	System should handle without crash	Application handled queries smoothly	Pass
PT-03	Error Handling Test	Provide invalid or incorrect questions	Proper error message should appear	Errors displayed correctly without system failure	Pass

