

User Acceptance Testing (UAT) Template

Date	28 February 2026
Team ID	LTVIP2026TMIDS46423
Project Name	Intelligent SQL Querying with LLMs Using Gemini Pro
Maximum Marks	

Project Overview:

Project Name: Intelligent SQL Querying with LLMs Using Gemini Pro

Project Description: AI-powered system that converts natural language queries into SQL statements and retrieves structured database results.

Project Version: v1.0

Testing Period: 22 February 2026 to 25 February 2026

Testing Scope:

Features Tested:

- Natural Language Input Handling
- SQL Query Generation
- SQL Validation
- Database Execution
- Result Display
- Error Handling
- API Integration

User Stories Tested:

- USN-1: Enter Natural Language Query
- USN-2: Generate SQL Automatically
- USN-3: Display Results
- USN-4: Block Destructive Queries
- USN-5: Show Error Messages

Testing Environment:

URL / Location: Localhost (Streamlit Application)

Credentials: Not Required (Local Test Mode)

Test Cases:

Test Case ID	Test Scenario	Test Steps	Expected Result	Actual Result	Pass/Fail
TC-001	Validate Natural Language Input	1. Open app 2. Enter valid query 3. Click submit	System generates SQL	SQL generated correctly	Pass

Bug Tracking:

Bug ID	Bug Description	Steps to reproduce	Severity	Status	Additional feedback
BG-001	Minor delay for complex joins	1. Enter multi-table join query 2. Submit	Medium	Closed	Response time improved after optimization
BG-002	Ambiguous query misinterpretation	1. Enter vague query 2. Submit	Low	Closed	Prompt engineering improved accuracy

Sign-off:

Tester Name: AAkisetti KARTHIK

Date: 20 February 2026

Signature: A.KARTHIK

Notes:

- All test cases covered both positive and negative scenarios.
- Detailed feedback collected from testers.
- Bugs tracked with severity and resolution status.
- System validated before deployment.