

Project Design Phase-II

Data Flow Diagram & User Stories

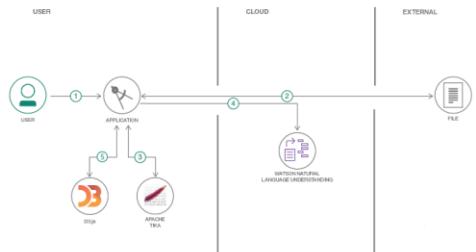
Date	24 February 2026
Team ID	LTVIP2026TMIDS34458
Project Name	Intelligent SQL Querying with LLMs using Gemini Pro
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Example: (Simplified)

Flow



1. User configures credentials for the Watson Natural Language Understanding service and starts the app.
2. User selects data file to process and load.
3. Apache Tika extracts text from the data file.
4. Extracted text is passed to Watson NLU for enrichment.
5. Enriched data is visualized in the UI using the D3.js library.

User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the IntelliSQL application using my email and password.	I can access my IntelliSQL dashboard	High	Sprint-1
Customer (Web User)	Registration	USN-2	As a user, I will receive a confirmation message after registering for IntelliSQL.	I receive confirmation and can proceed to login	High	Sprint-1
Customer (Web User)	Login	USN-3	As a user, I can log in to IntelliSQL using my registered email and password.	I can successfully log in and view the dashboard	High	Sprint-1
Customer (Web User)	Login	USN-4	As a user, I can securely log out of the IntelliSQL application.	My session ends and I am redirected to login page	Medium	Sprint-1
Customer (Web User)	Login	USN-5	As a user, I can reset my password if I forget it.	I can set a new password and log in again	Medium	Sprint-1
Customer (Web User)	Dashboard	USN-6	As a user, I can enter natural language queries on the dashboard.	The system accepts my query input	High	Sprint-1
Customer (Web user)	Query Processing	USN-7	As a user, I want the system to convert my natural language query into SQL using AI.	SQL query is generated correctly	High	Sprint-1
Customer Care Executive	Support	USN-8	As a support executive, I can help users with query-related issues.	User issues are resolved successfully	Low	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Administrator	System Management	USN-9	As an administrator, I can manage database connections and monitor system usage.	Database configuration and monitoring works properly	High	Sprint-1