

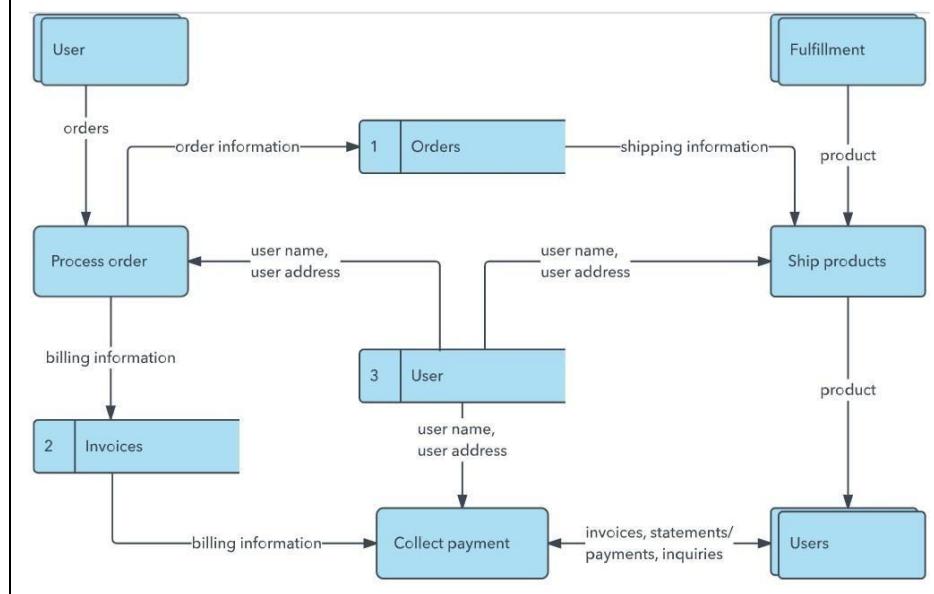
## ProjectDesignPhase-II

### DataFlowDiagram&UserStories

Date	08February2026
TeamID	LTVIP2026TMIDS66060
ProjectName	Intelligent SQLQuerying with LLMs Using Gemini Pro
MaximumMarks	4 Marks

#### DataFlowDiagrams:

A Data Flow Diagram (DFD) represents how data flows within the IntelliSQL system. It shows how user input is processed using Gemini Pro, converted into SQL queries, executed on the database, and how results are returned.



Example: DFDlevel0(IndustrialStandard)

Example: [\(Simplified\)](#)

#### DFDLevel0(ContextDiagram)

ExternalEntity:User  
MainProcess:IntelliSQLSystem

#### DataFlow:

1. User enters Natural Language Query
2. System sends request to Gemini Pro
3. SQL Query Generated
4. Query executed on Database
5. Results returned to User

## DFDLevel1(DetailedFlow)

1. UserInterfaceModule—Acceptsinputanddisplayssresults.
2. LLMProcessingModule(GeminiPro) —ConvertsnaturallanguagetoSQL.
3. QueryValidationModule—CheckssyntaxandpreventsSQLinjection.
4. DatabaseModule—ExecutesSQLquery.
5. ResponseFormatter—Displaysreadableresultstotheuser.

## UserStories

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

UserType	Functional Requirement (Epic)	UserStory Number	UserStory/Task	Acceptance criteria	Priority	Release
Customer(Web User)	Registration	USN-1	Registerusingemail&password	Usercancreateaccount andlogin	High	Sprint-1
Customer(Web User)	Login	USN-2	Loginusingcredentials	Dashboardloads successfully	High	Sprint-1
Customer(Web User)	NaturalLanguage Query	USN-3	Enter naturallanguage to generate SQL	Systemgeneratesaccurate SQL query	High	Sprint-1
Customer(Web User)	Query Execution	USN-4	Execute generated SQL query	Query runs and displays results	High	Sprint-1
Customer(Web User)	Query Explanation	USN-5	View explanation of SQL query	Query explained in simple English	Medium	Sprint-2
<b>Administrator:</b>						
UserType	Epic	UserStory No	UserStory	Acceptance Criteria	Priority	Release
Administrator	Database Management	USN-6	Managedatabaseschema	Schema updates successfully	High	Sprint-1

Administrator	User Management	USN-7	Viewandmanageusers	Admincanmonitor users	Medium	Sprint-2