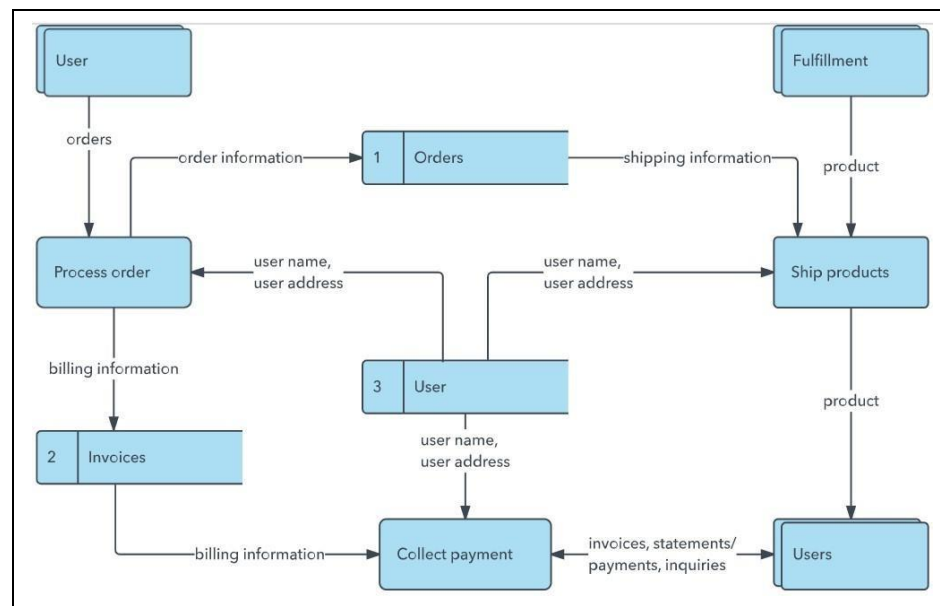


## ProjectDesignPhase-II DataFlowDiagram&UserStories

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

### DataFlowDiagrams:

A DataFlowDiagram (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: DFD level 0 (Industrial Standard)

Example: [Simplified](#)

### DFD Level 0 (Context Diagram)

External Entity: User

Main Process: IntelliSQL System

Data Flow:

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–Acceptsinputanddisplaysresults.
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	Acceptancecriteria	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	EnternaturallanguagetogenerateSQL	Systemgeneratesaccurate SQL query	High	Sprint-1
Customer(Web User)	Query Execution	USN-4	ExecutegeneratedSQLquery	Queryrunsanddisplays results	High	Sprint-1
Customer(Web User)	Query Explanation	USN-5	ViewexplanationofSQLquery	Queryexplainedinsimple English	Medium	Sprint-2
Administrator:						
UserType	Epic	UserStory No	UserStory	AcceptanceCriteria	Priority	Release
Administrator	Database Management	USN-6	Managedatabaseschema	Schemaupdates successfully	High	Sprint-1

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