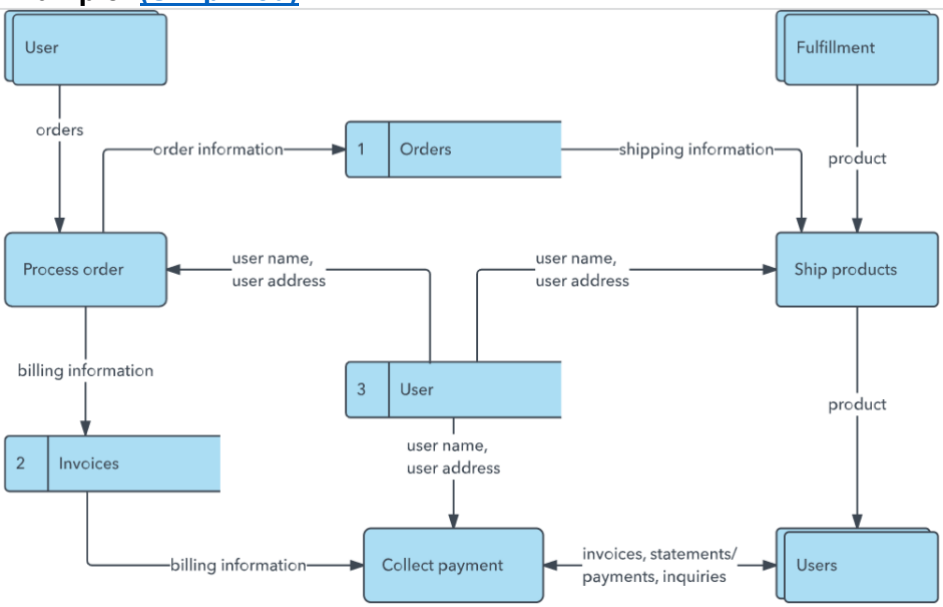
Project Design Phase-II
Data Flow Diagram & User Stories

Date	31 January 2026
Team ID	LTVIP2026TMIDS65560
Project Name	Educational Organization Using ServiceNow
Maximum Marks	4 Marks

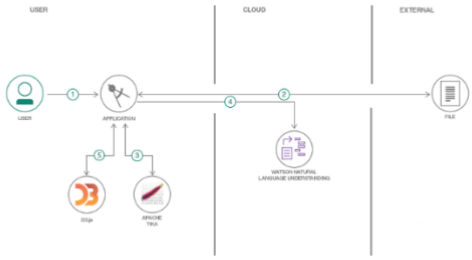
Data Flow Diagrams:

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 application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
Student	Login	USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
Student	Dashboard	USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
Student	Service Request	USN-4	As a user, I can register for the application through Gmail	Request submitted and tracked	Medium	Sprint-1
Student	Login	USN-5	As a user, I can log into the application by entering email & password	Status displayed	High	Sprint-1
Teacher	Dashboard	USN-6	As a teacher, I can update student performance.	Data updated	High	Sprint-1
Customer (Web user)	Upload Marks	USN-7	As a teacher, I can upload student marks.	Marks saved successfully	High	Sprint-1
Admin	User Management	USN-8	As an admin, I can manage users.	Users added/removed	High	Sprint-1
Administrator	Admission Management	USN-9	As an admin, I can manage admission details.	Admission data stored	High	Sprint-2

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Admin	Report Generation	USN-10	As an admin, I can generate reports.	Reports generated	Medium	Sprint-2

Data Flow Diagram (DFD) - Level 1

Entities:

· Admin – manages setup, data entry, and evaluation

· Student – subject of data entry and academic progress

· System Database – stores and processes all relevant data

Processes:

1. Student Admission – capturing student personal and admission data

2. Student Progress Entry – entering marks and academic progress

3. Result & Grade Generation – calculating totals, percentages, and results

Data Stores:

· D1: Salesforce Table – student personal information

· D2: Admission Table – admission-related data like status

· D3: Student Progress Table – marks, progress, results

Data Flow Summary:

· Admin inputs student details → stored in Salesforce Table

· Admission status tracked → in Admission Table

· Marks entered manually → stored in Student Progress Table

· Scripts calculate total, percentage, and result

· Data displayed in the user interface for admin verification.