

**Project Design Phase-II**  
**Data Flow Diagram & User Stories**

Date	29 <sup>th</sup> June 2025
Team ID	LTVIP2025MID31063
Project Name	Importing and securing Data in servicenow
Maximum Marks	4 Marks

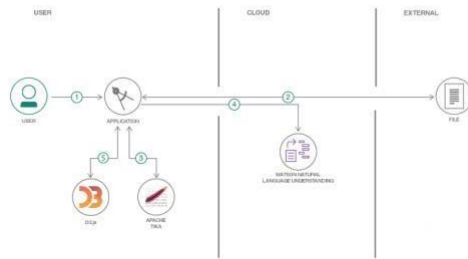
**Data Flow Diagrams:**

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.

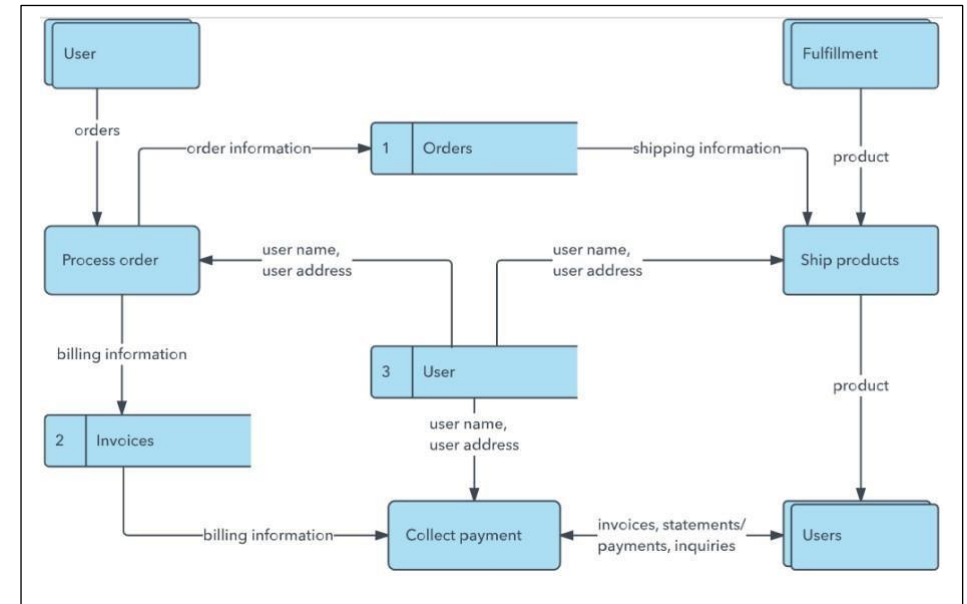
Example: DFD Level 0 (Industry Standard)

## 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
Data operator (admin)	Data import	USN-1	As a data operator, I can upload external data files (CSV, Excel, XML) into the ServiceNow staging tables.	Data is successfully loaded into staging without file corruption or import errors	High	Sprint-1

		USN-2	As a data operator, I receive a confirmation notification (email or ServiceNow alert) once the import process completes successfully or fails.	I get a notification with a clear success/failure message after import completion	High	Sprint-1
	Data Mapping & Validation	USN-3	As a data operator, I can configure and apply transform maps to ensure imported data fields	Data fields are mapped as per the transform map and validate successfully.	High	Sprint-2
			are mapped correctly to target ServiceNow tables.			
		USN-4	As a data operator, I can run validation scripts or rules on imported data to identify errors or inconsistencies before storing in final tables	Validation scripts run automatically; errors are logged and displayed to the operator.	Medium	Sprint-1
Data Operator / Security	Security Enforcement	USN-5	As a security admin, I can apply Access Control Lists (ACLs) and assign role-based permissions to imported data, ensuring only authorized access	Imported data respects ACLs; unauthorized users cannot access restricted data.	High	Sprint-1
	Error Handling USN	USN-6	As a data operator, I can review and download detailed error reports if import, validation, or security processes fail	Error reports are generated automatically and available for download.	Medium	Sprint-2

Administrator	Audit& compliance	USN-7	An administrator, I can generate audit logs of data import, validation, and security enforcement activities for compliance and review purposes	Audit logs include time stamps, user details, actions taken, and outcomes	High	Sprint-2
<b>User Type</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Acceptance criteria</b>	<b>Priority</b>	<b>Release</b>