

Project Design Phase-II

Data Flow Diagram & User Stories

Date	27 June 2025
Team ID	LTVIP2025TMID32976
Project Name	EduTutor AI: Personalized Learning with Generative AI and LMS Integration
Maximum Marks	4 Marks

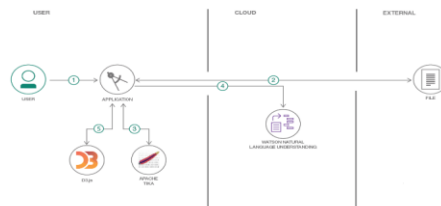
Data Flow Diagrams:

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.

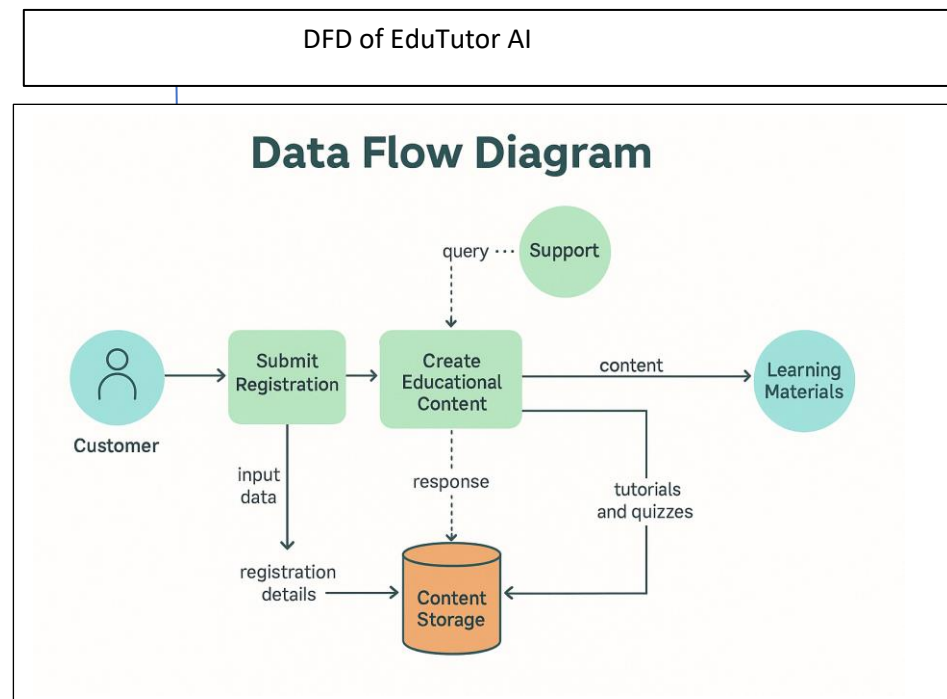
A **Data Flow Diagram (DFD)** is a graphical tool used to model the flow of data within a system. It shows how data is **input, processed, stored, and output** in a clear and systematic way. For EduTutor AI, the DFD outlines how users interact with the system through the interface and how their data is processed by the AI model and other components.

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)	Streamlit UI	USN-1	As a user, I can register for the application by entering my name and password	I can access my account/dashboard	High	Sprint-1
		USN-2	As a user, I can log into the application using name & password.	Login should redirect me to the dashboard	High	Sprint-1
	Concept Explanation	USN-3	As a user, I can enter a concept and get a simplified explanation.	The concept is clearly explained in an easy way	High	Sprint-1
	MCQ Generation	USN-4	As a user, I can enter a topic it generates questions for practice.	A quiz with relevant questions is generated	High	Sprint-2
		USN-5	As a user, I can choose a language (English/Hindi) to learn grammar and parts of speech.	Language learning content is displayed	Medium	Sprint-2