

Project Design Phase-II Data Flow Diagram & User Stories

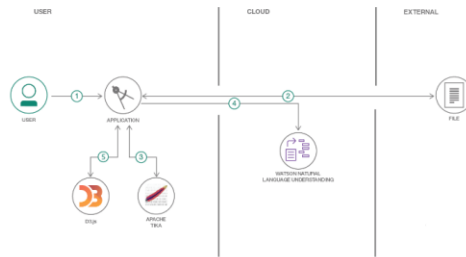
Date	27 June 2025
Team ID	LTVIP2025TMID30306
Project Name	EduTutor AI: Personalized Learning with Generative AI and LMS Integration
Maximum Marks	4 Marks

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.

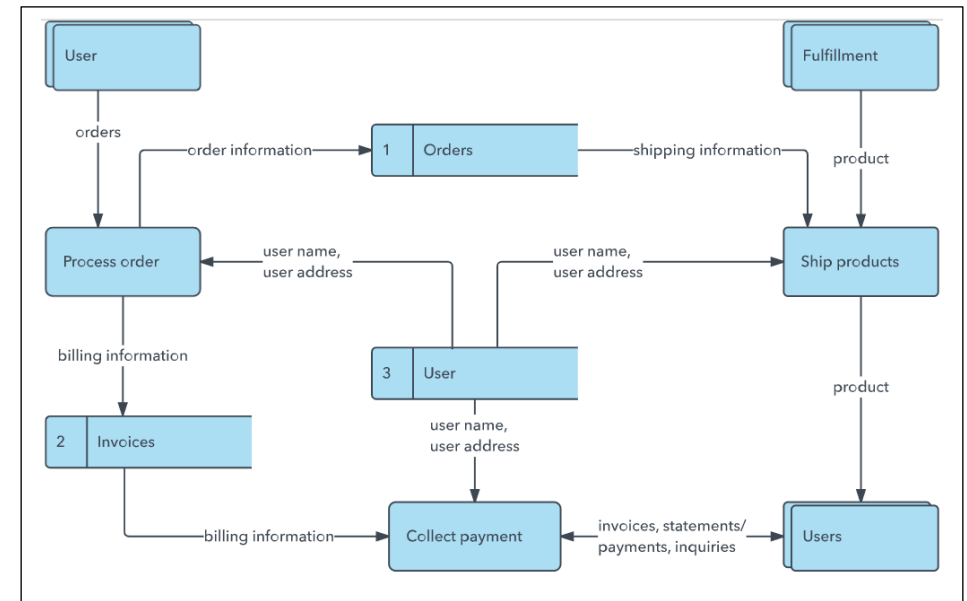
Example: [\(Simplified\)](#)

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.

Example: DFD Level 0 (Industry Standard)



User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Student (Mobile/Web)	Registration	USN-1	As a student, I can register using email and password	I can create an account and view dashboard	High	Sprint-1
Student	Email Confirmation	USN-2	As a student, I get a confirmation email after registration	I receive and verify via confirmation email	High	Sprint-1
Student	Google/Gmail Login	USN-3	As a student, I can log in using my Google account	I can access the dashboard via Google login	Medium	Sprint-2
Student	AI Tutor Chat	USN-4	As a student, I can ask questions to the EduTutor AI assistant	AI responds with educational help in natural language	High	Sprint-2
Student	Personalized Quiz	USN-5	As a student, I get quiz suggestions based on my past performance	Quiz topics match my weak areas	High	Sprint-3
Student	LMS Access	USN-6	As a student, I can access learning materials from the LMS	I can open, read, and complete lessons	High	Sprint-2
Student	Feedback System	USN-7	As a student, I receive feedback after completing a quiz	I can view suggestions and scores after quiz	Medium	Sprint-3
Admin	User Management	USN-8	As an admin, I can manage registered student accounts	I can view, delete, and reset user accounts	Medium	Sprint-4

