

Project Design Phase-II

Data Flow Diagram & User Stories

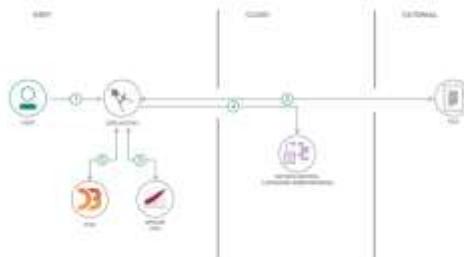
Date	01 February 2026
Team ID	LTVIP2026TMIDS60803
Project Name	Optimizing User, Group, and Role Management with Access Control and Workflows
Maximum Marks	4 Marks

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)

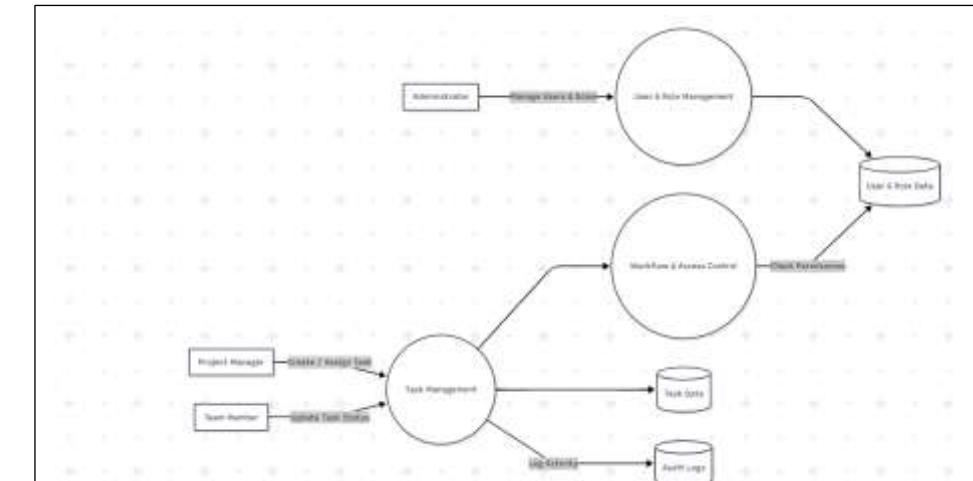
Flow



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.

DFD – Level 0 (Context Diagram)

DFD – Level 1 (Detailed System Diagram)



User Stories

Project Manager (Alice)

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Project Manager	Login	US-1	As a Project Manager, I can log into the system securely	Dashboard loads after authentication	High	Sprint-1
Project Manager	Task Management	US-2	As a Project Manager, I can create new tasks	Task is saved in Task Table	High	Sprint-1
Project Manager	Task Assignment	US-3	As a Project Manager, I can assign tasks to a team member	Task assigned successfully	High	Sprint-1
Project Manager	Task Monitoring	US-4	As a Project Manager, I can view task progress	Status updates visible	High	Sprint-2
Project Manager	Close Task	US-5	As a Project Manager, I can close completed tasks	Task marked as Completed	Medium	Sprint-2

Team Member (Bob)

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Team Member	Login	US-6	As a Team Member, I can log into the system	Assigned tasks are visible	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Team Member	View Task	US-7	As a Team Member, I can view tasks assigned to me	Only assigned tasks are displayed	High	Sprint-1
Team Member	Update Task	US-8	As a Team Member, I can update task status	Status changes saved	High	Sprint-1
Team Member	Comment on Task	US-9	As a Team Member, I can add comments to tasks	Comments stored in task record	Medium	Sprint-2

Administrator

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Administrator User Management		US-10	As an Admin, I can create and manage users	Users saved in User Table	High	Sprint-1
Administrator Role Management		US-11	As an Admin, I can create and assign roles	Roles linked to users	High	Sprint-1
Administrator Group Management		US-12	As an Admin, I can create and manage groups	Groups updated successfully	Medium	Sprint-2
Administrator Access Control		US-13	As an Admin, I can define ACL rules	Unauthorized access is restricted	High	Sprint-2
Administrator Audit Reports		US-14	As an Admin, I can generate activity reports	Reports downloadable	Medium	Sprint-2