

Project Design Phase-II

Data Flow Diagrams and User Stories

Date	2 st November, 2025
Team id	NM2025TMID06473
Maximum Marks	4 marks

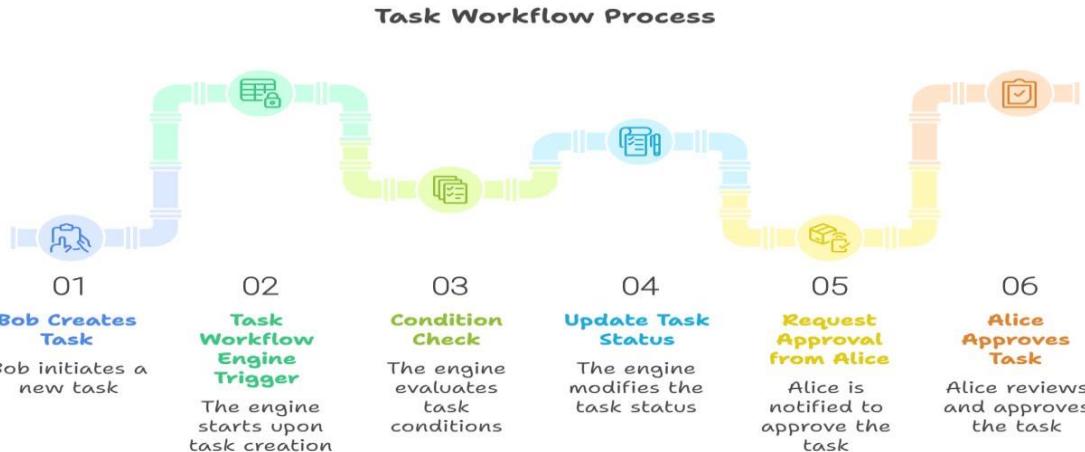
Optimizing User, Group, and Role Management with Access Control and Workflows

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.

In the project 'Optimizing User, Group, and Role Management with Access Control and Workflows', Data Flow Diagrams (DFDs) illustrate how user, group, and role data is processed within the system. The DFD shows the interaction between the admin, system, and database components to validate actions and maintain data consistency.

Example:



User Stories:

User stories define what different users need from the system in simple, goal-focused language. In this project, they ensure the system manages user, group, and role configurations efficiently while enforcing access control and workflow integrity.

User Type	Functional Requirement	User Story Number	User Story / Task	Acceptance Criteria	Priority / Release
Administrator User	USN-1 Management	USN-1	As an admin, I want to create, modify, or delete users while ensuring roles and groups are updated accordingly.	The system should validate linked entities before any change.	High / Sprint-1
System	Access Validation	USN-2	As a system, I must automatically validate inconsistent	No user or group should have inconsistent	High / Sprint-1

group and access
role mappings.

dependencies

before

applying

access

updates.

Manager	Workflow Approval	USN-3	As a manager, I want to approve workflow requests for	The system should generate notifications for pending approvals.	Medium / Sprint-2
---------	-------------------	-------	---	---	-------------------

group and

role

assignments.