

Project Design Phase-II

Data Flow Diagrams and User Stories

Date	2 November,2025
Team id	NM2025TMID08344
Maximum Marks	4 marks

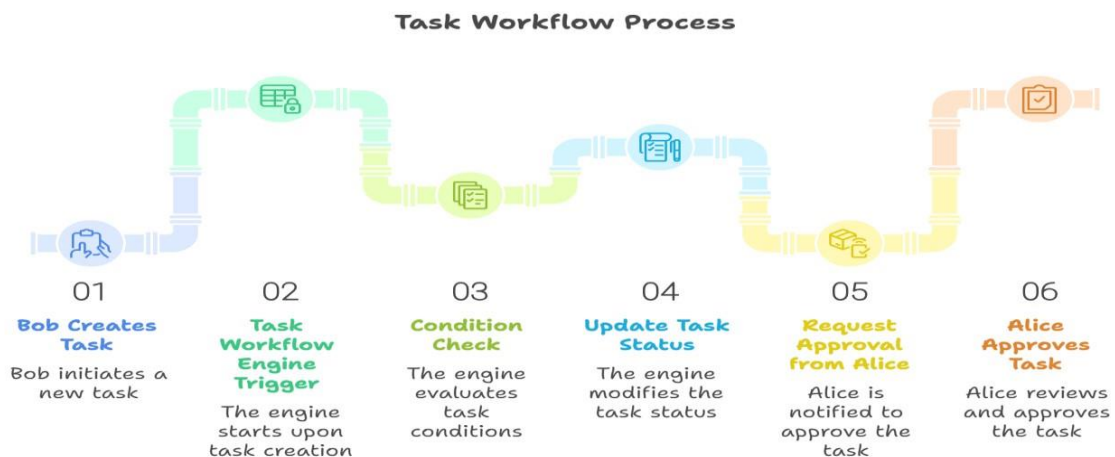
Optimizing User, Group, and Role Management with Access Control and Workflows

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
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(Epic)

Administrator User		USN-1	As an admin,	The system	High /
	Management		I want to	should	Sprint-1
			create,	validate	
			modify, or	linked	
			delete users	entities	
			while	before any	
			ensuring	change.	

roles and

groups are

updated

accordingly.

System	Access	USN-2	As a system,	No user or	High /
	Validation		I must	group should	Sprint-1
			automatically	have	
			validate	inconsistent	
			group and	access	
			role	mappings.	

dependencies

before

applying

access

updates.

Manager	Workflow	USN-3	As a	The system	Medium /
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Approval

manager, I should Sprint-2
want to generate
approve notifications
workflow for pending
requests for approvals.

group and
role
assignments.