

# Project Design Phase-II

## Data Flow Diagrams and User Stories

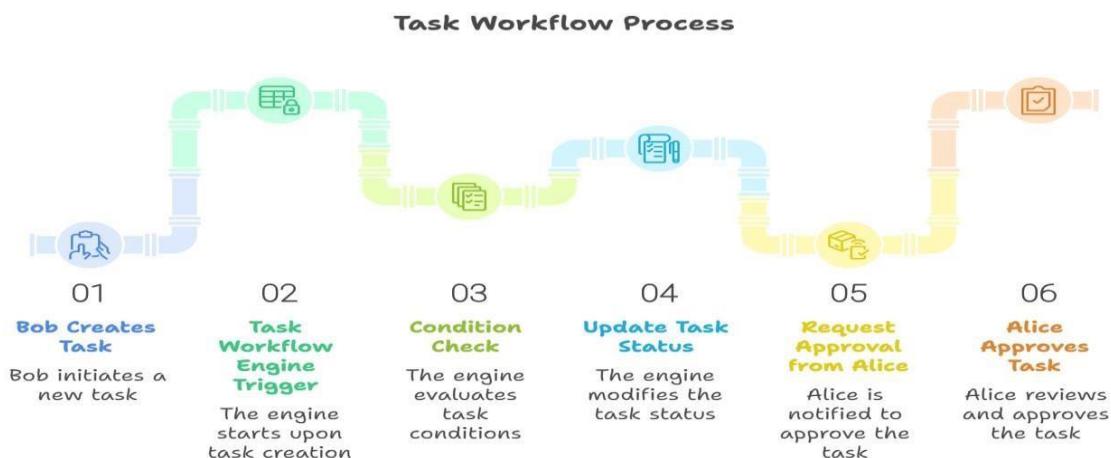
Date	2 November,2025
Team id	NM2025TMID06473
Maximum Marks	4 marks

### **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
(Epic)					

Administrator User	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
--------------------	-------	---	---	-----------------

groups are updated accordingly.

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

before applying access updates.

Manager	Workflow Approval	As a manager, I should	The system	Medium / Sprint-2
---------	-------------------	------------------------	------------	-------------------

want to generate  
approve notifications  
workflow for pending  
requests for approvals.

group and role  
assignments.