

Project Design Phase-II

Data Flow Diagram & User Stories

Date	31 October 2025
Team ID	26F183223D3726BBDE54BD8DC6085AFC
Project Name	Optimize User, Group, and Role Management with Access Control and Workflow
Maximum Marks	2 Marks

Data Flow Diagram:

A Data Flow Diagram (DFD) represents the movement of data within a system. It shows how information is created, processed, and accessed between users, groups, and roles. In the project “Optimizing User, Group, and Role Management with Access Control and Workflows”, the DFD illustrates how ServiceNow manages user permissions, assigns roles, and automates task approvals through workflows. The diagram depicts the interaction between the Project Manager, Team Member, and the System (Flow Designer) — ensuring that every action, such as task updates or approvals, follows proper access control.

Examples:

1. The Project Manager (Alice) creates and assigns tasks to the Team Member (Bob).
2. The system checks access permissions using roles (Project Manager / Team Member).
3. The Flow Designer triggers when the task status changes to In Progress or Feedback.
4. The Flow updates the task status automatically to Completed.
5. The system sends an approval request to the Project Manager for confirmation.
6. Upon approval, the task is marked as Completed and logged in the system.

User Stories:

User Stories describe what different users need from the system in clear, goal-oriented statements. They define how access control and workflows operate efficiently between users and roles.

User Type	Functional Requirements[epic]	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Project Manager (Alice)	User & Role Management	USN-1	As a project manager, I want to assign specific roles to users for access control.	Roles are correctly assigned and reflected in user profiles.	High	Sprint-1
Team Member (Bob)	Task Workflow	USN-2	As a team member, I want to update task status and send it for approval automatically	Status changes to “Completed” after approval	High	Sprint-2
Administrator	Access Control	USN-4	As an admin, I want to monitor all access permissions and workflows for audit.	Access logs and role mappings are viewable in system security.	Medium	Sprint-2