

Project Design Phase-II
Data Flow Diagram & User Stories

Date	1 NOVEMBER 2025
Team ID	NM2025TMID00309
Project Name	Optimizing User, Group, and Role Management with Access Control and Workflows
Maximum Marks	4 Marks

Data Flow Diagrams:

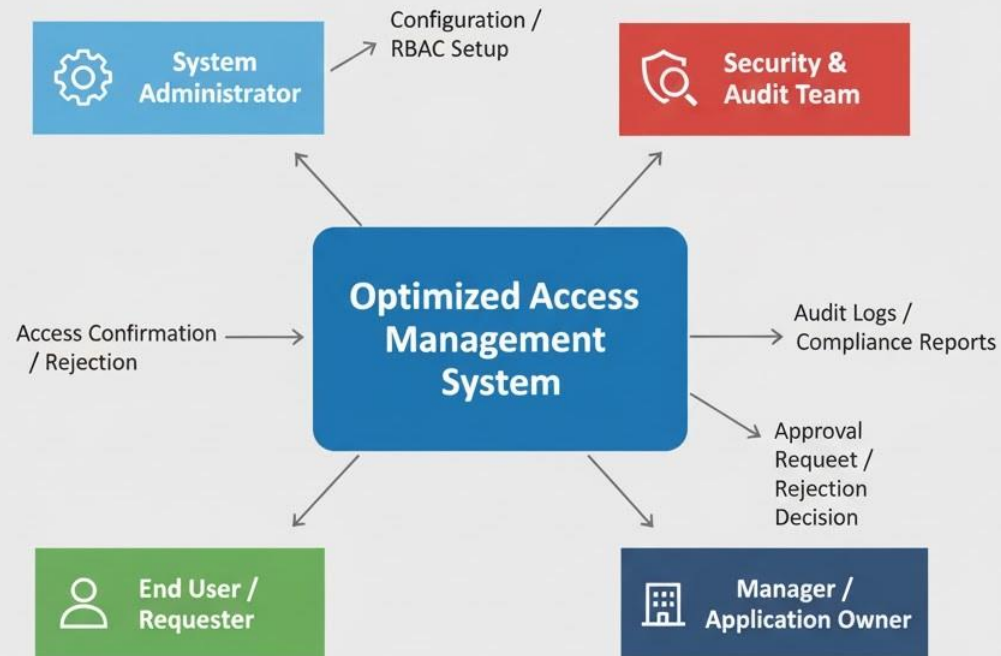
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

In the project "Prevent User Deletion if Assigned to an Incident", Data Flow Diagrams (DFDs) illustrate how user deletion requests are processed within the system. The DFD shows the interaction between the admin, the system, and the incident database to validate whether a user is assigned to any active incidents. If the user is linked to an incident, the system blocks the deletion request to maintain data integrity and accountability.

Example:

Data Flow Diagram (DFF) - Level 0: Context Overview

Project: Optimized Access Diagram Ovagram



User Stories:

User stories are crucial because they clearly define the functional requirements of the system from the perspective of the people who will actually use it

User Stories and Acceptance Criteria: Optimized Access Management			
User Type	Functional Requirement (Epic)	User Story / Task	Acceptance Criteria
End User / Requester	As a User, I want to submit a request for application access through a self-service portal.		Priority
USN-1	As a User, I can find the form in Service Catalog, fill in required (application, justification), and submit. The system confirmation message rings.	High	Release
Approval Workflow	As a Manager, I want to receive request email direct link direct to my direct reports' access' and easily approval record. Approve/Rejection easily / Rejection buttons are. Decision is logged.	High	Sprint 1
USN-2	As a Manager, I must automatically add the user to the correct Security group once creation clear. Decision is logged.	High	Sprint 2
USN-4	As a system, I must automatically add the correct to the correct group upon final approval.	High	Sprint 3
System (Automated Workflow)	As user record is updated is updated with the correct group membership after immediately after endisconnected after the are associated group the final approval.	High	Sprint 3
Access Provisioning	A user with specific access role can view/edit records defined by ACLs, but is denied to unauthorized. The is denied data with is security access to the security related roles.	High	Sprint 3
Access Compliance	As an Auditor, I want a complete, immutable log of all access requests, approvals is denied access and system actions, provisioning actions.	High	Sprint 3
Audit & Compliance	A dedicated Audit Log table recovery state recovery state change, request, including timing, timestamps, and system actions, – accessible for reporting.	High	Sprint 4