Project Design Phase-II
Data Flow Diagram & User Stories

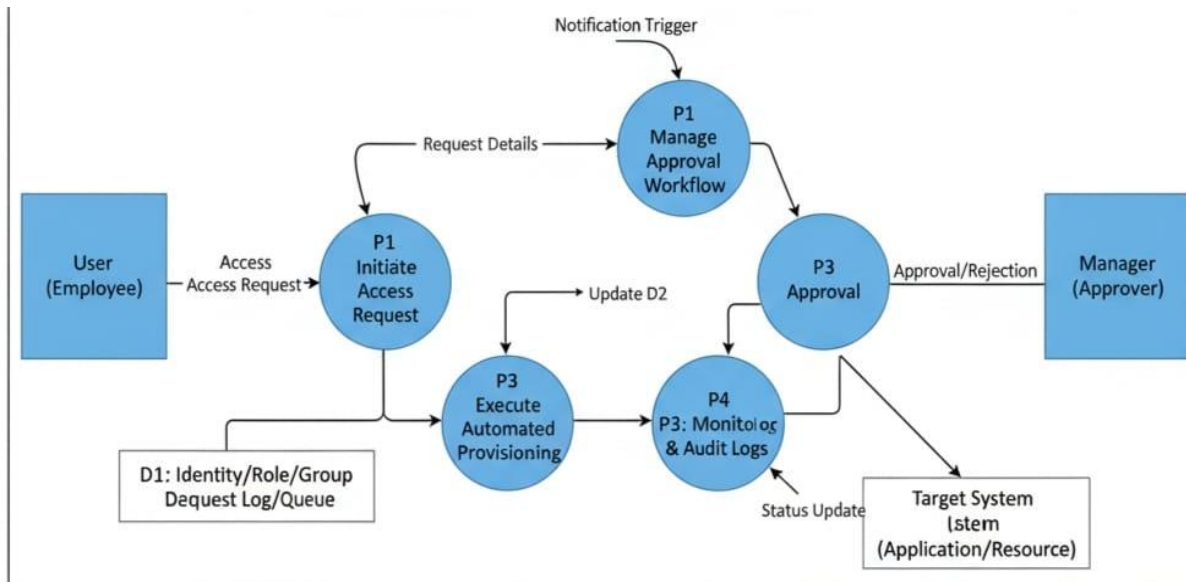| Date	2 November 2025
Team ID	NM2025TMID04605
Project Name	Optimizing User, Group and Role Management with Access Control and Workflows
	4 marks
Marks	

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of how 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 Workflow", the Data Flow Diagram (DFD) illustrates how user creation, role assignment, and access control requests are processed within the system. The DFD shows the interaction between the Administrator, the Access Control module, Workflow Engine, and the Database to ensure that every user and role assignment follows a proper workflow with security validation.

Example:

User Stories:

User stories define what different users need from the system in simple, goal-focused language. In this project, they help ensure the system blocks user deletion only when necessary, protecting incident data.

User Type	Orness Fuer Story / Task Component	Acceptance Priority Criteria	Release
User (Emrvice Access Request	As a User, I want to request new access (Role/Group) (Role/Group) through a single, ɑ–use porteliɑ aaprovals. The request so that can get tiptress subbitted with the neessary permissions efficiently.	High	
Manager/ Role Owner Approval	As a Manager, I want to be alerted immediutely of ness access for team,/epprect the from my moble/email, so that atl eyprager rencete process is quick non-blocking.	High	Sprint 1
Governance & Approval	As a Manager, I want to be alerted immediutely aun tarrn schrec-my team, anl aprovet/email, and system must enforce 48-hour 4–hour SLA foroi non-blocking.	High	Sprint 1
System (Core Engine Provisioning	Approval decisions must recorded with tiamsswarrts SLA for manager (e-g, AD, Cloud Amp).	High	Sprint 1
System (Core Engine)	As a System, when an access request is fully approved, I want to automaticaly pernvision in Target System Cloud App) within a that manual processing errors is elininated.	High	Sprint 2
System De-prosisioning	Provisisining success rate must tos $ ≤ 98%. The fullllment time to user's access upon the dehved not exceed 5 minutes post-appoval. mininaized.	High	Sprint 2
System Administrator	The de-provissing process must fully remove all reccootonjdeleess from of that security exposusòn date that confim deletion with aɪd a loɑ log entry.	High	Sprint 2
Audit and Reportting	The de-provissing process must fully remove all viash: showing all pending requests and approval timeɪɪ time; so onfiim delstoaɪ worklow efficiency. compliance.	High	Sprint 2
System Administrator & De-prroisioning	Reports must to exportablle PDF/Excel formad a-egrate sysmat and and historicals show metrics like average appflow effcioval time (SLA compliance).	High	Medium