

Project Design Phase-II Data Flow Diagram & User Stories

Date	01 Nov 2025
Team ID	NM2025TMID01533
Project Name	Optimizing User, Group, and Role Management with Access Control and Workflows
Maximum Marks	4 Marks

Certainly, Sirisha! Here's a tailored description of a **Data Flow Diagram (DFD)** for your project on **Role-Based Access Control and Workflow Management**:

Data Flow Diagram (DFD) – Project Overview

The Data Flow Diagram for this project visually represents how data moves through the system, emphasizing user roles, task management, and access control. It illustrates the flow of information between users (e.g., Project Manager and Team Members), the processes they initiate, and how data is stored or modified within the application.

Key Elements of the DFD:

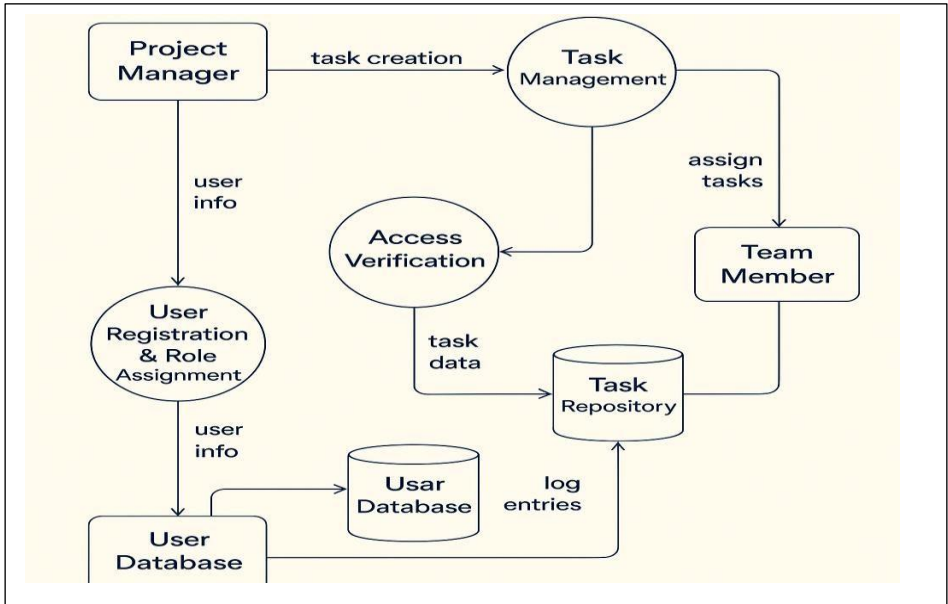
- **External Entities:**
 - *Project Manager* and *Team Members* serve as external actors who interact with the system by creating tasks, assigning roles, and updating statuses.
- **Processes:**
 - *User Registration & Role Assignment*: Assigns roles upon registration and updates access rights.
 - *Access Verification*: Validates user actions based on assigned roles and permissions.
 - *Progress Reporting*: Generates performance reports and task summaries.
 - *Task Management*: Allows creation, assignment, and status updates of tasks.

- **Data Stores:**
 - *User Database*: Stores user credentials, roles, and permissions.
 - *Task Repository*: Holds all task-related information, including assignments and updates.
 - *Audit Logs*: Tracks changes in roles, permissions, and task statuses.
 - **Data Flows:**
 - Data flows between users and processes, showing how a request (e.g., login, task update) travels through access validation before being stored or reflected in reports.
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This DFD provides a clear visual summary of your system's logic and data movement. If you'd like, I can help sketch it out or convert it into a presentation slide for easier sharing.

Example: [\(Simplified\)](#)

Example: **Data Flow Diagram & User Stories**



User Stories for Role-Based Access Control System

Functional		User Story		
User Type	Priority Release	User Story / Task		Acceptance Criteria
Requirement (Epic)		Number		

Administrator	User & Role Sprint-	USN-1	As an admin, I can define and assign roles	Roles are assigned during user	High
	Management 1		(e.g., Project Manager, Team Member).	onboarding and stored in the system.	
Administrator	Access Control	USN-2	As an admin, I can configure access levels Sprint-	Users see only content and features	High
			based on user roles.	relevant to their role.	
Project Manager	Task Assignment	USN-3	As a PM, I can create and assign tasks to Sprint-	Tasks are assigned and visible only to	High
			users based on their roles.	relevant users.	
Team Member	Task Management	USN-4	As a team member, I can view, update, and Sprint-	Task status can be modified and	Medium
			mark tasks as completed.	by the PM.	
Project Manager	Status Notifications	USN-5	As a PM, I receive notifications when a task is Sprint-	Notification is triggered on task status	Medium
			updated.	change.	

Project		As a user, I can generate reports on project Sprint-	Reports display task metrics, user
	Reporting & Analytics USN-6		Medium
Manager/Admin		progress and user activity. 2	performance, and project timelines.
	Role Update & Audit	As an admin, I can modify user roles and	Updated roles are reflected Sprint-
Administrator	USN-7		Low
	Log 3	view change history.	immediately with change logs recorded.