

## Project Design Phase-II

### Data Flow Diagram & User Stories

Date	01 Nov 2025
Team ID	<b>NM2025TMID05440</b>
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**:

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#### **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. ◦

*Task Management*: Allows creation,

*Access Verification*: Validates user actions based on assigned roles and permissions.

*Progress Reporting*: Generates performance reports and task summaries.

##### **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**

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## User Stories for Role-Based Access Control System

		Functional	User Story			
User Type				User Story / Task	Acceptance Criteria	Priority Release
		Requirement (Epic)	Number			
Administrator	User & Role		USN-1	As an admin, I can define and assign roles  Management 1	Roles are assigned during user onboarding and stored in the system.	Sprint-High
				As an admin, I can configure access levels  Sprint-	Users see only content and features relevant to their role.	1
Administrator	Access Control	USN-2		based on user roles.  As a PM, I can create and assign tasks to  Sprint-	Tasks are assigned and visible only to relevant users.	High
Project Manager	Task Assignment	USN-3		users based on their roles.  As a team member, I can view, update, and Task status can be modified and tracked  Sprint-	Task status can be modified and tracked by the PM.	1
Team Member	Task Management	USN-4		mark tasks as completed.		Medium

As a PM, I receive notifications when a task is Notification is triggered on task status Sprint-				
Project Manager	Status Notifications	USN-5		Medium
		updated.	change.	2
Project Manager	Reporting & Analytics	USN-6	As a user, I can generate reports on project progress and user activity.	Reports display task metrics, user performance, and project timelines.
Manager/Admin	Role Update & Audit	USN-7	As an admin, I can modify user roles and view change history.	Updated roles are reflected immediately with change logs recorded.
Administrator	Log	3		Low