

Project Design Phase-II

Data Flow Diagram & User Stories

Date	
Team ID	LTVIP2026TMIDS79123
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.

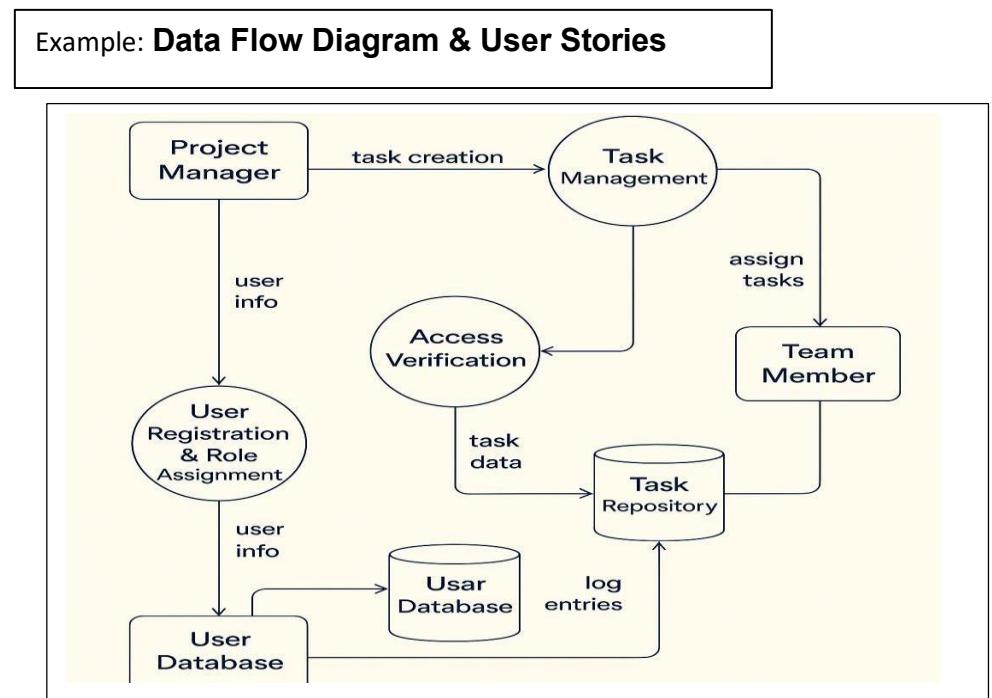
Key Elements of the DFD:

- **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.
 - *Task Management*: Allows creation, assignment, and status updates of tasks.
 - *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)



Project Alpha: Role-Based Access Control System							
User Type	Functional Requirement (Epic)	User Story Number	User Story / Task		Acceptance Criteria	Priority	Release
			Description	Test Cases			
Administrator	User & Role Management	USN-1	As an admin, I can define and assign roles (e.g., Project Manager, Team Member).	Unit tests for role creation, integration with user onboarding.	Roles are assigned during user onboarding and stored in the system.	High	Sprint-1
Administrator	Access Control	USN-2	As an admin, I can configure access levels based on user roles.	Integration tests with user interface, role-based access checks.	Users see only content and features relevant to their role.	High	Sprint-1
Project Manager	Task Assignment	USN-3	As a PM, I can create and assign tasks to users based on their roles.	Integration with task management API, user role verification.	Tasks are assigned and visible only to relevant users.	High	Sprint-1
Team Member	Task Management	USN-4	As a team member, I can view, update, and mark tasks as completed.	Integration with task management API, user role verification.	Task status can be modified and tracked by the PM.	Medium	Sprint-2
Project Manager	Status Notifications	USN-5	As a PM, I receive notifications when a task is updated.	Integration with notification service, user role verification.	Notification is triggered on task status change.	Medium	Sprint-2
Project Manager/Admin	Reporting & Analytics	USN-6	As a user, I can generate reports on project progress and user activity.	Integration with reporting API, user role verification.	Reports display task metrics, user performance, and project timelines.	Medium	Sprint-2
Administrator	Role Update & Audit Log	USN-7	As an admin, I can modify user roles and view change history.	Integration with audit log API, user role verification.	Updated roles are reflected immediately with change logs recorded.	Low	Sprint-3

