

Project Design Phase Solution Architecture

Date	02 Nov 2025
Team ID	NM2025TMID03269
Project Name	Optimizing User, Group, and Role Management with Access Control and Workflows
Maximum Marks	4 Marks

Solution Architecture:

Workflow for Role-Based Access Control and Task Management

1. User Identification and Role Assignment

- Each team member is assigned a role upon onboarding (e.g., Project Manager, Team Member).
 - Roles determine the level of access and control over project resources and tasks.
- ##### 2. Task Creation and Allocation
- The Project Manager creates tasks and assigns them to specific team members based on their roles.
 - Tasks are categorized by priority, deadline, and required skills.

3. Access Control Implementation

- Role-based permissions ensure that users only access relevant tools, documents, and information.
- Admin rights remain with the Project Manager, while members access only assigned task zones.

4. Task Execution and Status Updates

- Team members execute tasks and regularly update progress within the system.
- Each status change (e.g., In Progress, Blocked, Completed) triggers a notification to the relevant stakeholders.

5. Review and Feedback

- The Project Manager reviews task outputs and provides feedback or approvals.
- A feedback loop ensures continuous improvement and knowledge transfer.

6. Reporting and Documentation

- The system generates reports on task completion, timelines, and performance.
- These insights help in future project planning and accountability.

Example - Solution Architecture Diagram:

Figure 1: Architecture and data flow of the with Access Control and Workflows Optimizing

User, Group, and Role Management

