PROJECT DESIGN PHASE

SOLUTION ARCHITECTURE

Date	2 november 2025
Team ID	NM2025TMID05988
Project Name	Optimizing User, Group, and Role Management with Access Control and Workflows
Maximum Marks	4 marks

SOLUTION ARCHITECTURE:

GOALS OF THE ARCHITECTURE:

The goals of the architecture for Optimizing User, Group, and Role Management with Access Control and Workflows are to implement a robust role-based access control system that ensures secure and efficient management of user access, enforces least privilege principles, and streamlines workflows through automation and centralized management, ultimately enhancing security, compliance, and operational efficiency within the organization.

KEY COMPONENTS:

The key components of Optimizing User, Group, and Role Management with Access Control and Workflows include Role Definition, User Assignment, Access Control Policies, Workflow Automation, Auditing and Monitoring, and Centralized Management, which collectively enable secure, efficient, and compliant management of user access and privileges within an organization.

DEVELOPMENT PHASES:

The development phases for Optimizing User, Group, and Role Management with Access Control and Workflows include Requirements Gathering, System Design, Role Definition and Configuration, Access Control Policy Development,

Workflow Automation Setup, Integration with Existing Systems, Testing and Quality Assurance, Deployment, and Maintenance and Continuous Improvement, ensuring a comprehensive and effective solution.

SOLUTION ARCHITECTURE DESCRIPTION:

The solution architecture for Optimizing User, Group, and Role Management with Access Control and Workflows features a centralized identity and access management platform that integrates role-based access control, automated workflows, and robust auditing capabilities, enabling organizations to efficiently manage user identities, enforce granular access controls, and automate business processes while ensuring compliance and security
across the enterprise.

EXAMPLE – SOLUTION ARCHITECTURE DIAGRAM: