

Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	1 st November 2025
Team ID	NM2025TMID06439
Project Name	Optimizing User, Group, and Role Management with Access Control and Workflows
Marks	4 Marks

Technical Architecture:

The deliverable includes the architectural diagram and technology stack used in the project 'Optimizing User, Group, and Role Management with Access Control and Workflows'. It outlines how various components such as user management, group assignments, and role-based access controls are integrated within a workflow-driven system to ensure data integrity and secure operations.

• Example:

Table-1: Components & Technologies:

S.No	Component	Description	Technology Date & Time
1	User Interface Web UI	Admin interacts dashboard for managing	ServiceNow via web

		users, groups, and roles.	
2	Application Logic-1 role assignment and group	Implements ServiceNow workflows for management.	Flow Designer
3	Application Logic-2 relationships	Validates user-role and group GlideRecord	ServiceNow Scripts / before updates.
4	Application Logic-3	Triggers ServiceNow notifications on updates or access changes.	Notifications
5	Database	Stores user, group, and role	ServiceNow CMDB details.
6	Cloud Infrastructure	Hosted and managed on ServiceNow Cloud.	SaaS Platform
7	File Storage	Stores system logs and audit	ServiceNow System Logs trails.
8	External API for	Integrates with REST API identity verification.	ServiceNow HRMS

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
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Date &
Time

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|---|--------------------------------------|---|-------------------------------------|
| 1 | Security | Role-based ServiceNow Implementations access control, ACLs, and secure workflows. | ACLs & Scoped Applications |
| 2 | Scalable Architecture | SaaS-based ServiceNow scalable architecture for large organizations. | Cloud Platform |
| 3 | Availability | High availability through redundant instances. | Load-balanced SaaS Nodes ServiceNow |
| 4 | Performance workflows operations and | Optimized Flow Designer, Background ensure fast validations. | Scripts |
| 5 | Integration | Seamless ServiceNow connection with external systems via REST APIs. | IntegrationHub |