

Project Design Phase

Solution Architecture

Date: 28 June 2025

Team ID: LTVIP2025TMID28676

Project Name: Optimizing User, Group, and Role Management with Access Control and Workflows

Solution Architecture Description:

The solution consists of:

- Frontend: Web-based dashboard for role management and task assignment.
- Backend: Secure API managing user groups, roles, permissions, and workflow logic.
- Database: Stores user data, roles, permissions, task records, and workflow states.
- Authentication: Role-based access control integrated with Single Sign-On (SSO) capabilities.
- Workflow Engine: Automates task assignments, notifications, and progress tracking.

Architecture Diagram:

(A simplified architecture diagram is included.)

