Functional Specification Document (FSD)

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

1. Project Overview

The project aims to introduce a structured system for managing users, groups, roles, and workflows within a small project management team. The goal is to eliminate confusion, improve accountability, and ensure seamless task assignments through role-based access control and automated workflows.

2. Functional Requirements

- User Registration and Authentication (including SSO integration)

- Role Management (e.g., Project Manager, Team Member)

- Group Creation and Management

- Task Assignment linked to user roles

- Workflow Automation for task progression and notifications

- Activity Logs for accountability

3. User Roles & Permissions

- Project Manager (Alice): Full access to user management, task assignments, and workflow configuration.

- Team Member (Bob): Access to view tasks, update task status, and receive workflow notifications.

4. Workflow Description

Tasks are assigned based on user roles. When a task is created by the Project Manager, the system automatically notifies the responsible team member. Upon task updates, notifications are triggered to keep stakeholders informed. The workflow engine ensures accountability and traceability.

5. Non-Functional Requirements

- The system must be scalable for additional teams.

- High availability and data security.

- Simple, intuitive user interface.

6. Assumptions & Constraints

- Designed for small to medium-sized project teams.

- Internet connectivity is assumed for system access.

- Integration with existing project management tools is optional.