

Ideation Phase

Brainstorm, and Idea Prioritization

Date	2 November 2025
Team ID	NM2025TMID04605
Name	Optimizing User, Group, and Role Management with Access Control and Workflow
Maximum Marks	4 Marks

Optimizing User, Group, and Role Management with Access Control and Workflows

Modern organizations rely on multiple systems and teams that require secure, well-defined access levels. However, manually managing users, groups, and roles often results in duplicated permissions, delays in approvals, and potential security risks. This project focuses on optimizing access control and workflow automation to ensure a streamlined, secure, and auditable management process. It integrates smart workflows, predefined role templates, and dependency checks (e.g., preventing user deletion when assigned to incidents).

Step 1: Team Gathering, Collaboration, and Selection of Problem Statement

Objective: To identify the most critical challenge within user and role management through teamwork and collaborative analysis.

Process:

1. Gather team members (developers, testers, analysts, admins).
2. Discuss pain points in current systems.
3. Document recurring issues.
4. Select one focused problem for ideation.

Problem Statement: “Current user and role management processes are inefficient, lacking workflow automation and security checks, leading to redundant permissions and higher risk of unauthorized access.”

Optimizing User, Group, and Role Management with Access Control and Workflows

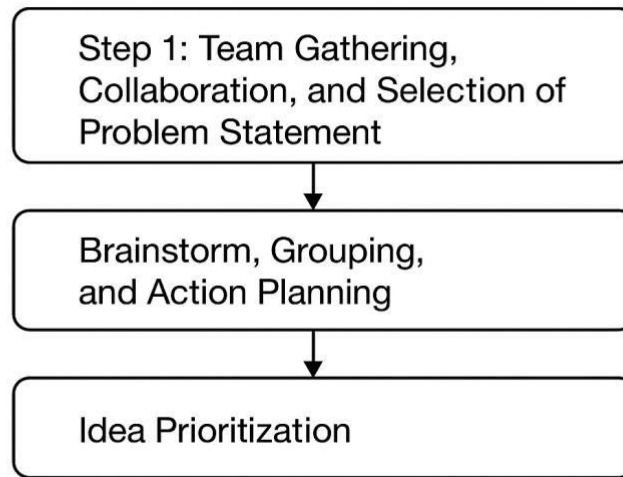


Figure 1: Overall Ideation Flowchart

Step 2: Brainstorming, Idea Listing and Grouping

Objective: To collect, categorize, and organize innovative solutions for the identified problem.

Idea ID	Idea	Description
I1	Role Templates	Create predefined roles for consistency and quick assignment.
I2	Workflow Automation	Add multi-level approval workflows for access requests.
I3	Access Dashboard	Centralized control panel for users, groups, and roles.
I4	Audit Trail	Record all role and access modifications for traceability.

I5	Conditional Deletion Rule	Prevent user deletion when linked to active incidents.
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Brainstorm: Discuss challenges in managing users, groups, and access permissions to identify inefficiencies and security risks.

Idea Listing: Collect all proposed solutions such as automated role assignment, restricted user deletion, and dynamic access control workflows.

Grouping: Cluster ideas into categories like security enhancement, workflow automation, and user experience improvement.

Action Planning: Define steps to prototype and test each grouped idea, assigning responsibilities and timelines.

Step 3: Idea Prioritization Objective:

To assess and rank all brainstormed ideas based on Impact, Effort, and Feasibility, ensuring the most valuable ideas are implemented first.

Idea ID	Idea	Impact	Effort	Feasibility	Priority	Remarks
I1	Role Templates	High	Medium	High	High	Improves consistency
I2	Workflow Automation	High	High	Medium	Medium	Key for long-term scalability
I3	Access Dashboard	High	Medium	High	High	Enhances admin visibility
I4	Audit Trail	Medium	Low	High	High	Easy to implement and valuable
I5	Conditional Deletion Rule	High	Low	High	High	Prevents data loss