**Project Design Phase**

**Problem – Solution Fit**

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| Date | 24 June 2025 |
| Team ID | LTVIP2025TMID30187 |
| Project Name | Optimizing User, Group, and Role Management with Access Control and Workflows |
| Mentor Name | Dr Shaik Salma Begum |
| Maximum Marks | 4 Marks |

**Problem–Solution Fit:**

The Problem–Solution Fit for this project reflects how the proposed system resolves key issues small project management teams face when handling task assignments, roles, and workflows. It ensures alignment between the solution and the operational challenges of real users—specifically Project Managers and Team Members—improving both clarity and control.

### ****Purpose****

* Solve problems related to role ambiguity, insecure access, and inefficient workflows in small project teams.
* Accelerate task completion and decision-making by implementing structured workflows and access controls.
* Improve team communication, clarity, and accountability by clearly defining roles and permissions.
* Build trust and consistency in project delivery through visibility, logging, and approval mechanisms.
* Support scalability and onboarding through automation and centralized role management.

**Problem–Solution Summary**

| **Identified Problem** | **Proposed Solution** |
| --- | --- |
| Undefined roles and confusion in task responsibilities | |  | | --- | | Clear role definitions for Project Manager and Team Member |  |  | | --- | |  | |
| Lack of access control leading to task mismanagement | |  | | --- | | Role-based Access Control (RBAC) restricting actions based on user roles |  |  | | --- | |  | |
| No structured workflow to guide task progress | |  | | --- | | Implemented task lifecycle (e.g., To-Do → In Progress → Review → Complete) |  |  | | --- | |  | |
| Difficulty onboarding or scaling new users/teams | |  | | --- | | Centralized user and role management with automation features | |

### ****Outcome****

* By achieving problem–solution fit, this project ensures:
* Project Managers and team members clearly understand and adhere to their responsibilities.
* Tasks are securely managed with proper access and permission layers.
* Project workflows are enforced with structured task stages, reducing delays and errors.
* Team operations scale smoothly with clear onboarding procedures and system automation.
* The system fosters transparency, accountability, and improved collaboration within teams.

**Template:**

