Project Design Phase II
Data flow methodology diagram and User stories

Team ID: NM2025TMID02609

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

Maximum Marks: 4

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

1. Methodology:

The implementation of this project is carried out in several structured steps:

Step 1: Creating Users

- Navigate to: All → Users → New
- Create users such as Alice P and Bob P.
- Assign them specific roles and save. Step 2: Creating Groups
- Navigate to: All → Groups → New
- Create groups:
    - Project Team
- Submit the groups. Step 3: Creating Roles
- Navigate to: All → Roles → New
- Create roles:
    - Project Member
    - Team Member
- Assign each role to its corresponding group. Step 4: Creating a Custom Table
- Go to: System Definition → Tables → New
- Label: Project table & Task Table 2

- Check:
    - Create Module
    - Create Mobile Module Step 5: Assigning Users and Roles

- Assign Alice to the *project manager team* and give her *the following roles:*
    - *Project_Member*
    - *u_project_table*
    - *u_task_table*

- Assign Bob to the *Team Member team* and give him the *following roles:*
    - *Team_Member*
    - *Table_role*

Step 6: Assigning Table Access to the Applications

• While creating a table, an application and module are automatically created.

- Navigate to: Application Navigator → Search "Project Table" application.
    - Click Edit Module → Assign Project_Member role.
    - Search Task Table 2 → Click Edit Application.
    - Assign Project_Member and Team_Member

roles. Step 7: Setting Access Controls (ACLs)

- Navigate to: System Security → Access Control (ACL)
- Create ACLs for the *Task Table.*
- Add the Team_Member role under *Requires Role.*
- Create four ACLs for the required

fields. Step 8: Designing the Flow

- Navigate to: Flow Designer → New Flow
- Create a flow "Task Table"
- Trigger: When a record is created in Operations Related

- Condition: Status is: In progress AND comments is feedback AND assigned to is bob
- Action: Update record → Status complete

Architecture Diagram

Below is the workflow architecture of the automation system

User Stories:

User Type	Functional Requirement (Epic)	User Story No.	User Story / Task	Acceptance Criteria	Priority	Release
Administrator	User Management	USN-1	As an admin, I want to create and manage users so that each user has appropriate access to the system.	Admin can create, edit, and delete users successfully under *System Security → Users.*	High	Sprint 1
Administrator	Role Management	USN-2	As an admin, I want to assign specific roles to users so that permissions can be controlled effectively.	Users receive only permissions defined by their roles (e.g., Project Member, Team Member).	High	Sprint 1
Administrator	Access Control (ACL) Configuration	USN-3	As an admin, I want to configure ACLs for task and project tables so that users can only view or edit permitted data.	ACLs restrict access based on roles; unauthorized users cannot edit restricted fields.	High	Sprint 2
System (Flow Designer)	Workflow Automation	USN-4	As a system, I want to automatically update a task's status to *Completed* when conditions are met.	When status = "In Progress" and comments = "Feedback", system updates status = "Completed."	Medium	Sprint 2
Project Manager (Alice)	Approval Flow	USN-5	As a project manager, I want to receive task approval requests so that I can review and approve completed tasks.	Alice receives approval requests under *My Approvals* and can approve or reject tasks.	Medium	Sprint 3
Team Member (Bob)	Role Validation & Testing	USN-6	As a team member, I want to access only the fields assigned to my role so that data integrity is maintained.	When impersonated as Bob, only Comments and Status fields are editable in the Task Table.	Medium	Sprint 3