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Class Diagram Explanation – Summary

1. User Class: Manages user account, authentication, and task assignment operations.
2. Task Class: Represents individual tasks with attributes like title, description, priority, and due date. It contains methods for CRUD operations and status changes.
3. Board Class: Represents a Kanban board which contains columns and has board members.
4. Column Class: Represents a stage in the workflow (To do, in progress, etc.) and contains tasks.
5. Notification Class: Handles notifications when tasks are assigned, moved, or completed.
6. Priority Enumeration: Defines Task Priority Levels.
7. AccessControl Class: Implements the authorization system to control who can perform specific actions.

Sequence Diagram Explanation:

The user initiates the action by dragging a task.

1. The system verifies if the user has permission to move the task.
2. If authorized, the task is removed from the source column and added to the destination column.
3. The task status is updated.
4. A notification is sent to the task's assignee.
5. The UI is updated to display the task in its new position.