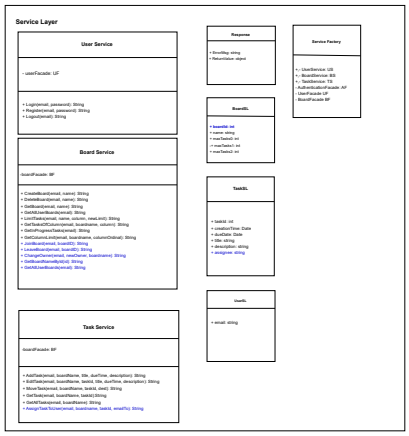


Changes we made from the initial diagram

1. BoardService & boardFacade:

- Added methods.

Justification: These methods were required in order to support the functions in grading service.

- To boardFacade added field nextBoardId.

Justification: This field is used to assign a unique ID to each new board.

2. BoardBL:

- Added fields dto , boardId , owner, joinedUsers, nextTaskId.

Justification: These fields are necessary for supporting multiple users per board, enforcing ownership permissions, and ensuring proper task ID generation and task-user management.

- Added method AssignTaskToUser(taskId, emailTo) to boardBL and **taskService**.

Justification: These method was required in order to support the functions in grading service.

3. TaskBL:

- Added fields dto and assignee.

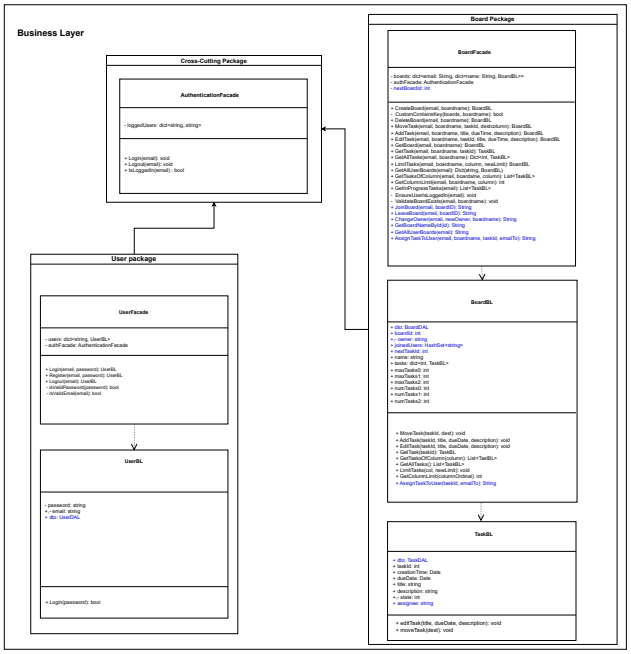
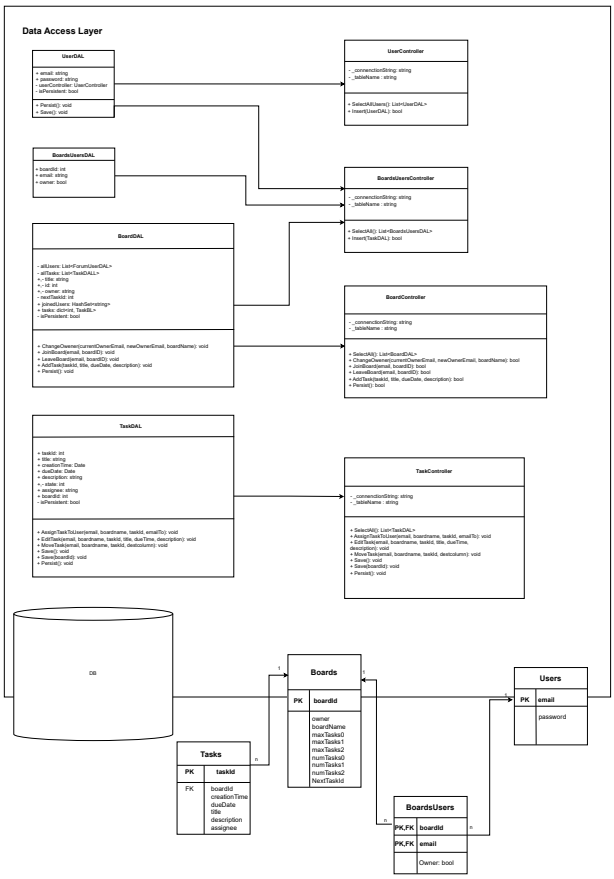
Justification: These fields enable task serialization and user-specific task ownership. The assignee field allows the system to associate each task with the user who is expected to complete it

4. UserBL:

- Added field dto.

Justification: This field is necessary in order to interact with the database.

5. Data Access Layer:

- Added the entire Data Access Layer.

Justification: This addition aligns with system requirements for saving and loading user, board, and task data, and prepares the system for future extensibility.