

Service layer

UserService
- userFacade :UserFacade
+ Register(email, password) : string + Login(email , pass) : string + Logout(email) : string + GetUserBoards(email) : string

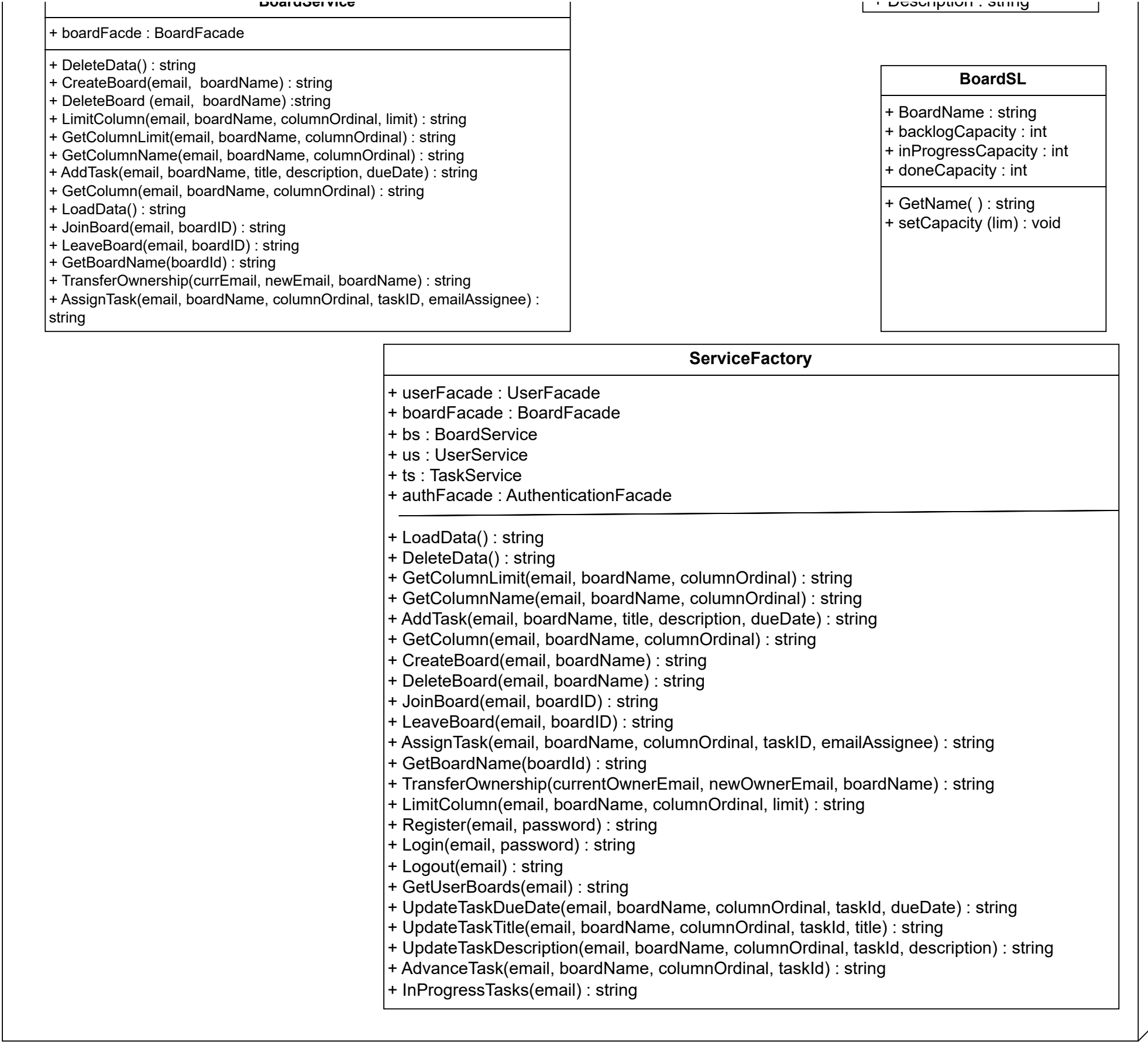
TaskService
- boardFacade : BoardFacade
+ UpdateTaskDueDate(email, boardName, columnOrdinal ,taskId, dueDate) : string + UpdateTaskTitle(email, boardName, columnOrdinal ,taskId, title) : string + UpdateTaskDescription(email, boardName, columnOrdinal ,taskId, description): string + AdvanceTask(email, boardName, columnOrdinal ,taskId) : string + InProgressTasks(email) : Response<TaskSL>

BoardService

Response
+ ErrorMessage : string + ReturnValue : object
+ ToJson() : string

UserSL
+ Email : String + LoggedIn : bool

TaskSL
+ Id : int + CreationTime : DateTime + DueDate : DateTime + Title : string + Description : string



+ BoardIDColumnName : string + IDColumnName : string + CreationTimeColumnName : string + DueDateColumnName: string + TitleColumnName : string + DescriptionColumnName : string + AssigneeColumnName : string + TaskStatusColumnName : string
InsertTask() : bool + UpdateTask() : bool + UpdateAssignee(assignee) : bool + UpdatePosition(postion) : bool + UpdateDueDate(duaDate) : bool + UpdateTitle(title) : bool + UpdateDescription(description) : bool

- InProgressColumnsDAL : ColmunsDAL - doneColumnsDAL : ColmunsDAL + IDColumnName : string + NameColumnName : string + OwnerEmailColumnName : string
+ InsertBoard(): bool + deleteBoard() : bool + JoinUser(userEmail): bool + LeaveUser(userEmail) : bool + UpdateOwner(newEmail) : bool + Presist() : bool

TaskController
- -connectionString: string - tableName : string - SelectAll + title: string + description: string + dueDate: DateTime + isDone : bool + creationTime : DateTime + boardName : string +column : string +Assignee : string - tableName : string
+ Insert(TaskDAL): bool + SelectTasksByBoard(boardID) : List<TaskDAL> + deleteTasksFromBoard(boardId) : bool + HasRecords() : bool + DeleteAll: bool + UpdateAssignee(newAssignee, id, boardId) : bool + UpdateTaskStatus(newStatus,id, boardId) : bool + UpdateDueDate(durDate, taskId, boardId) : bool + UpdateTitle(newTitle, taskId, boardId) : bool + UpdateDescription(description, taskId, boardId) :bool + HasTasksForBoard(boardId) : bool

BoardController
- _connectionString : string - TableName : string - boardName : string
+ Insert(BoardDAL): bool + Delete(int boardId): bool + SelectBoardsByUser(string): List<BoardDAL> + Presist(BoardDAL) : bool + DeleteAll(): bool + HasRecords() : bool + UpdateOwner(newOwnerEmail, boardId) : bool

ColumnController
- connectionString: string - TableName : string +LimitCol: int
+ Insert(ColumnDAL): bool + Delete(string): bool + Select(int): List<ColumnsDAL> + DeleteColumnsByBoardID(boardID) : bool +HasRecords() : bool + DeleteAll: bool

UserDAL
- email : string - password : string + us :UserController
+ get(string): List<BoardDAL> + persist (boardDAL):bool

UserController
- _connectionString: string - TableName = "Users"
+ AllUsers() : List<UserDAL> + HasRecords() : bool + DeleteAll() : bool + Persist(user) : bool

BoardUserController
- _connectionString : string - TableName : string - boardName : string////
+ SelectUsersInBoard(boardID) : List<string> + JoinUser(boardID, userEmail, type) : bool + LeaveUser(boardID, userEmail) : bool + DeleteBoard(BoardID) : bool + DeleteAll(): bool + HasRecords() : bool

ColumnsDAL
+ columnController: ColumnController + boardID : int + ColumnID : int + LimitCol : int? + BoardIDColumnName : string + ColumnIDColumnName : string + LimitColumnName : string
+ insert() : bool + DeleteColumnsByBoardID(boardID) : bool

