

Service Layer

TaskService
- _boardFacade: BoardFacade - _id: int
+ AddTask(bn, title, description, due, id, email): Response<TaskSL> + MoveTask(bn, column, id, email): Response<> + UpdateTask(bn, title, description, due, id, email, column): Response<> + AssignTask(email, bn, column, id, emailAssignee): Response<>

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

BoardService
- _boardFacade: BoardFacade
+ CreateBoard(bn, email): Response<BoardSL> + DeleteBoard(bn, email): Response<> + LimitColumn(bn, column, limit, email): Response<> + GetColumn(email, bn, column): Response<List<TaskSL>> + GetColumnLimit(email, bn, column): Response<int> + GetColumnName(email, bn, column): Response<string> + InProgressTasks(email): Response<List<TaskSL>> + JoinBoard(email, bi): Response<BoardSL> + LeaveBoard(email, bi): Response<> + TransferOwnership(owner, newOwner, bn): Response<> + GetUserBoards(email): Response<List<int>> + GetBoardName(bi): Response<string>

BoardSL
+ Name: string

UserSL
+ Password: string + Email: string

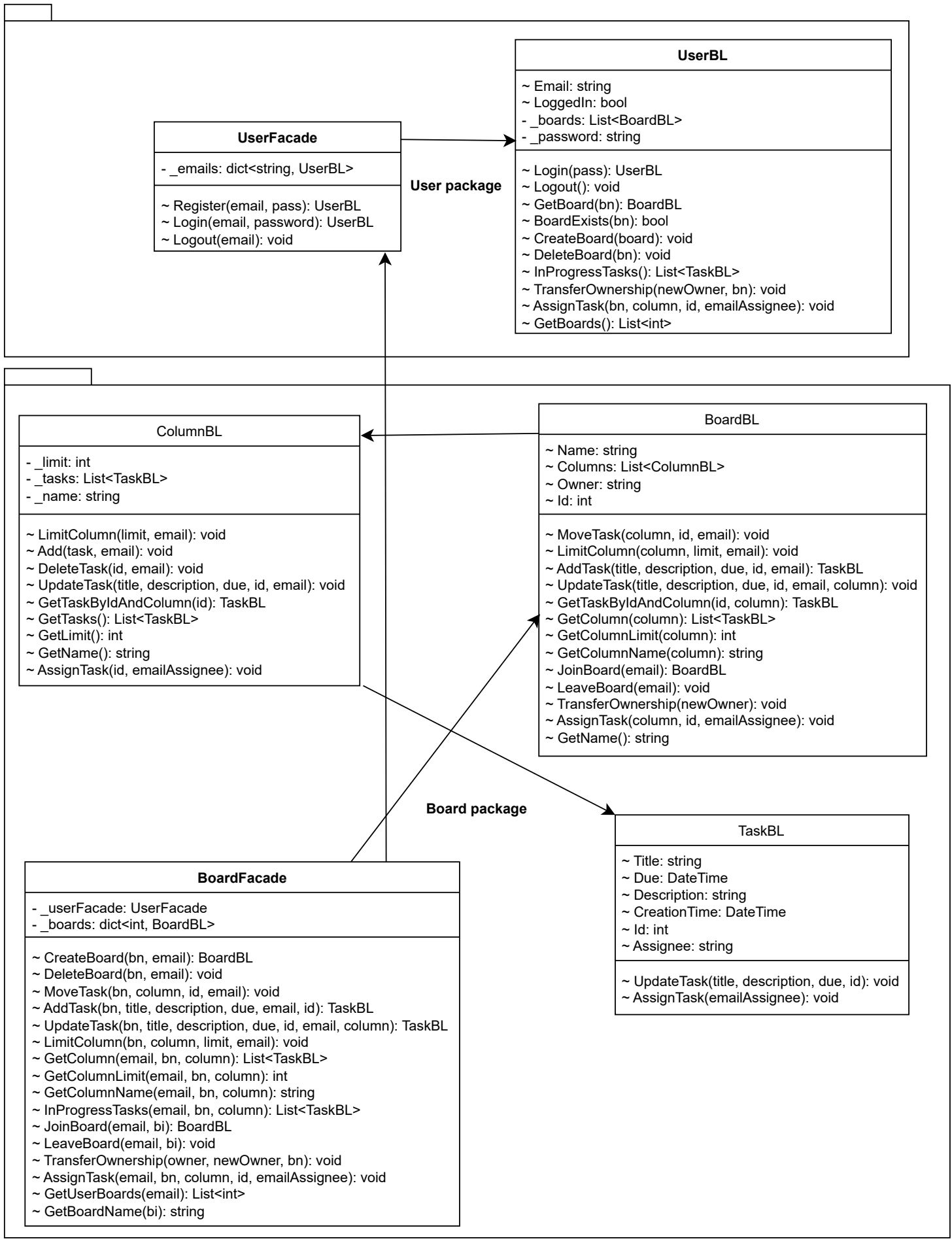
UserService
- _userFacade: UserFacade
+ Login(un, pass): Response<UserSL> + Register(un, pass, email): Response<UserSL> + Logout(): Response<>

ServiceFactory
- _taskService: TaskService - _boardFacade: BoardFacade - _userFacade: UserFacade - _boardService: BoardService - _userService: UserService
+ GetUserService(): UserService + GetBoardService(): BoardService + GetTaskService(): TaskService

Response
+ ErrorMessage: string + ReturnValue: object

שינויים מאז העיצוב הקודם:
Access modifiers were changed based on the structure of the project and connection between classes, functions and fields.
Added functions required in GradingService
Changed structure of ServiceLayer and BuisnessLayer
Added all new requirements - DAL, DB, new functions, etc.

Business Layer



Data Access Layer

UserDAL
+ Password: string + Email: string

BoardDAL
+ Name: string + Id: int + Owner: string + Columns: List<ColumnDAL>
+ AddTask(title, description, due, email, id): void

BoardUserDAL
+ id: int + email: string

ColumnDAL
+ Name: string + Limit: int + Tasks: List<TaskDAL> + BoardId: int
+ AddTask(title, description, due, email, id): void

UserController
+ SelectAll(): List<UserDAL> + UpdateEmail(old, new): void + UpdatePassword(email, password): void + Insert(user): void

TaskDAL
+ Title: string + Due: DateTime + Description: string + CreationTime: DateTime + Id: int + BoardId: int

