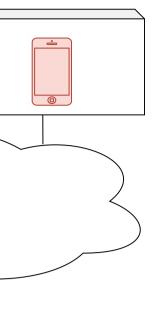


Service Layer:

GradingService

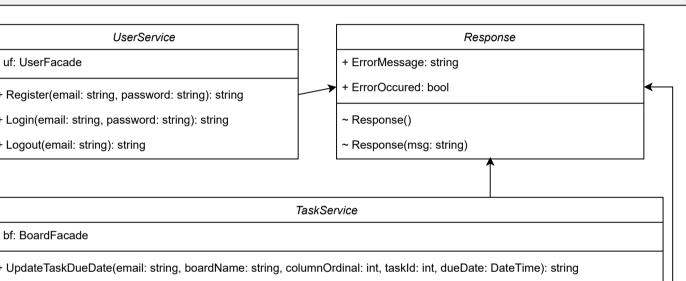
-userSer: UserService-boardSer: BoardService-taskSer: TaskService

- + Register(email: string, password: string): string
- + Login(email: string, password: string): string
- + Logout(email: string): string
- + LimitColumn(email: string, boardName:string, columnOrdinal: int, limit:int): string
- + GetColumnLimit(email: string, boardName:string, columnOrdinal:int): string
- + GetColumnName(email: string, boardName:string, columnOrdinal:int): string
- + AddTask(email: string, boardName:string, title:string, description:string, dueDate:DateTime): string
- + UpdateTaskDueDate(email: string, boardName:string, columnOrdinal:int, taskId:int, dueDate:DateTime): s
- + UpdateTaskTitle(email: string, boardName:string, columnOrdinal:int, taskId:int, title:string): string
- + UpdateTaskDescription(email: string, boardName:string, columnOrdinal:int, taskId:int, description:string): s
- + AdvanceTask(email: string, boardName:string, columnOrdinal:int, taskId:int): string
- + GetColumn(email: string, boardName:string, columnOrdinal:int): string
- + CreateBoard(email: string, name:string): string
- + DeleteBoard(email: string, name:string): string
- + InProgressTasks(email: string): string



Visibilaty

- + Public
- Private
- # Protected
- ~ Internal

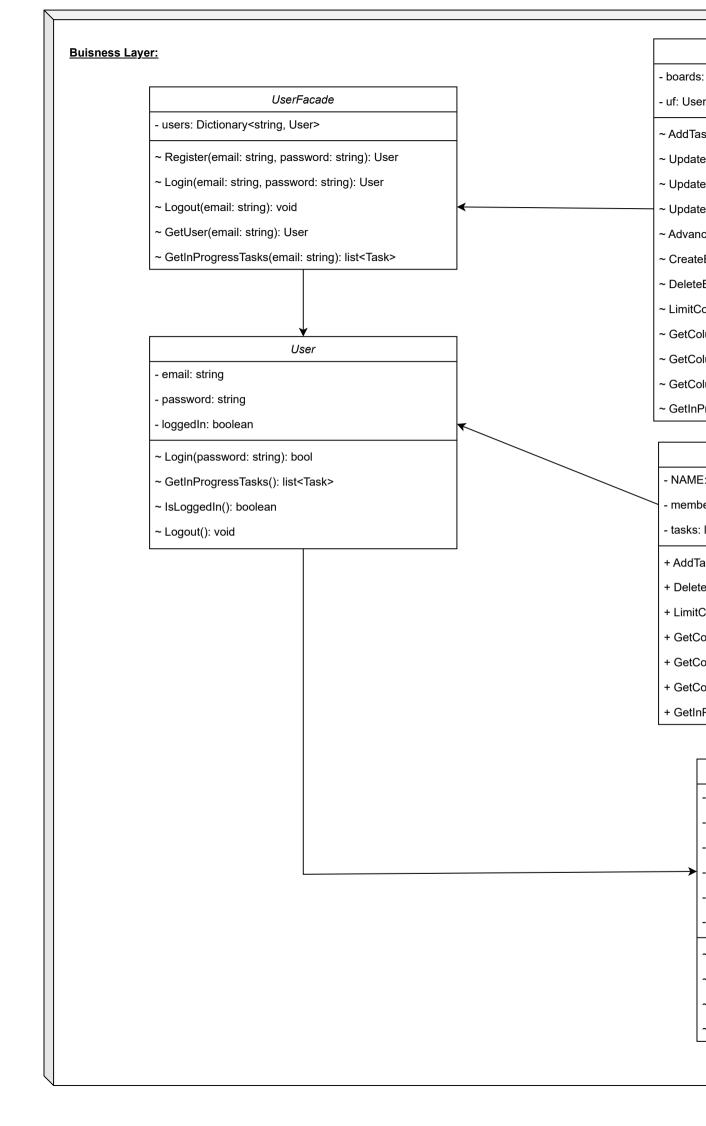


- UpdateTaskTitle(email: string, boardName: string, columnOrdinal: int, taskId: int, title: String): string
- · UpdateTaskDescription(email: string, boardName: string, columnOrdinal: int, taskId: int, description: string): string
- AdvanceTask(email: string, boardName: string, columnOrdinal: int, taskId: int): string

BoardService

bf: BoardFacade

- CreateBoard(email: string, name: string): string
- LimitColumn(email: string, boardName: string, columnOrdinal: int, limit: int): string
- GetColumnLimit(email: string, boardName: string, columnOrdinal: int): string
- GetColumnName(email: string, boardName: string, columnOrdinal: int): string
- GetColumn(email: String, boardName: string, columnOrdinal: int): string
- DeleteBoard(email: string, name: string): string
- InProgressTasks(email: string): string
- AddTask(email: String, boardName: string, title: string, description: string, dueDate: DateTime): string



BoardFacade	
dictionary <string, board=""></string,>	
Facade	
k(email: String, boardName: string, title: string, description: string, dueDate: DateTime): Task	
TaskDueDate(email: string, boardName: string, columnOrdinal: int, taskld: int, dueDate: DateTime): Task	
TaskTitle(email: string, boardName: string, columnOrdinal: int, taskld: int, title: String): Task	
TaskDescription(email: string, boardName: string, columnOrdinal: int, taskId: int, description: string): Task	
eTask(email: string, boardName: string, columnOrdinal: int, taskld: int): Task	
Board(email: string, name: string): Board	
Board(email: string, name: string): void	
lumn(email: string, boardName: string, columnOrdinal: int, limit: int): void	
umnLimit(email: string, boardName: string, columnOrdinal: int): int	
umnName(email: string, boardName: string, columnOrdinal: int): string	
umn(email: String, boardName: string, columnOrdinal: int): list <task></task>	
rogress(email: String): list <task></task>	
<u> </u>	
Board	
string	
ers: list <user></user>	
ist <task></task>	
sk(userName: String, boardName: string, dueDate: String, title: String, description: String, creationTime: String): ٦	Гаsk
Board(email: string, name: string): void	
olumn(userName: String, boardName: string, columnName: String, limitTasks: integer): void	
lumnLimit(email: string, boardName: string, columnOrdinal: int): int	
lumnName(email: string, boardName: string, columnOrdinal: int): string	
lumn(email: String, boardName: string, columnOrdinal: int): list <task></task>	

lask
id: integer
creationTime: string
dueDate: string
title: string
description: string
state: string

- UpdateTaskDueDate(email: string, boardName: string, columnOrdinal: int, taskId: int, dueDate: DateTime): Task
- UpdateTaskTitle(email: string, boardName: string, columnOrdinal: int, taskId: int, title: String): Task
- UpdateTaskDescription(email: string, boardName: string, columnOrdinal: int, taskId: int, description: string): Task
- AdvanceTask(email: string, boardName: string, columnOrdinal: int, taskId: int): Task