

service  
layer

**UserService**

- uc: UserController

+ login(email: String , password: String) : json  
+ createUser(email: String, password: String) : json  
+ logout() : json  
+ deleteAccount() : json

**boardService**

- bc: boardController

+ add(boardName: String): json  
+ remove(boardName: String): json  
+ changeState(boardName:String, taskTitle: String): json  
+ editTask(boardName: String, taskTitle: String, text: String): json

Business  
layer

**user**

+ email: String  
- password: String

+ changePassword(oldP: String, newP: String): String  
+ login(password: String): String

**task**

- createTime: String  
+ dueDate: String  
+ title: String  
+ description: String

+ editTitle(text: String): void  
+ editDueDate(text: String): void  
+ editDescription(text: String): void

**board**

+ name: String  
- columns: list<list<task>>

**UserController**

- users: list<user>

+ createUser(email: String, password:String): user  
+ deleteUser(email: String): void  
+ userExists(email: String): boolean  
+ gerUser(email: String): user

**boardController**

- boards: list<board>

+ add(boardName: String): board  
+ remove(boardName: String): void  
+ changeState(boardName:String, taskTitle: String): void