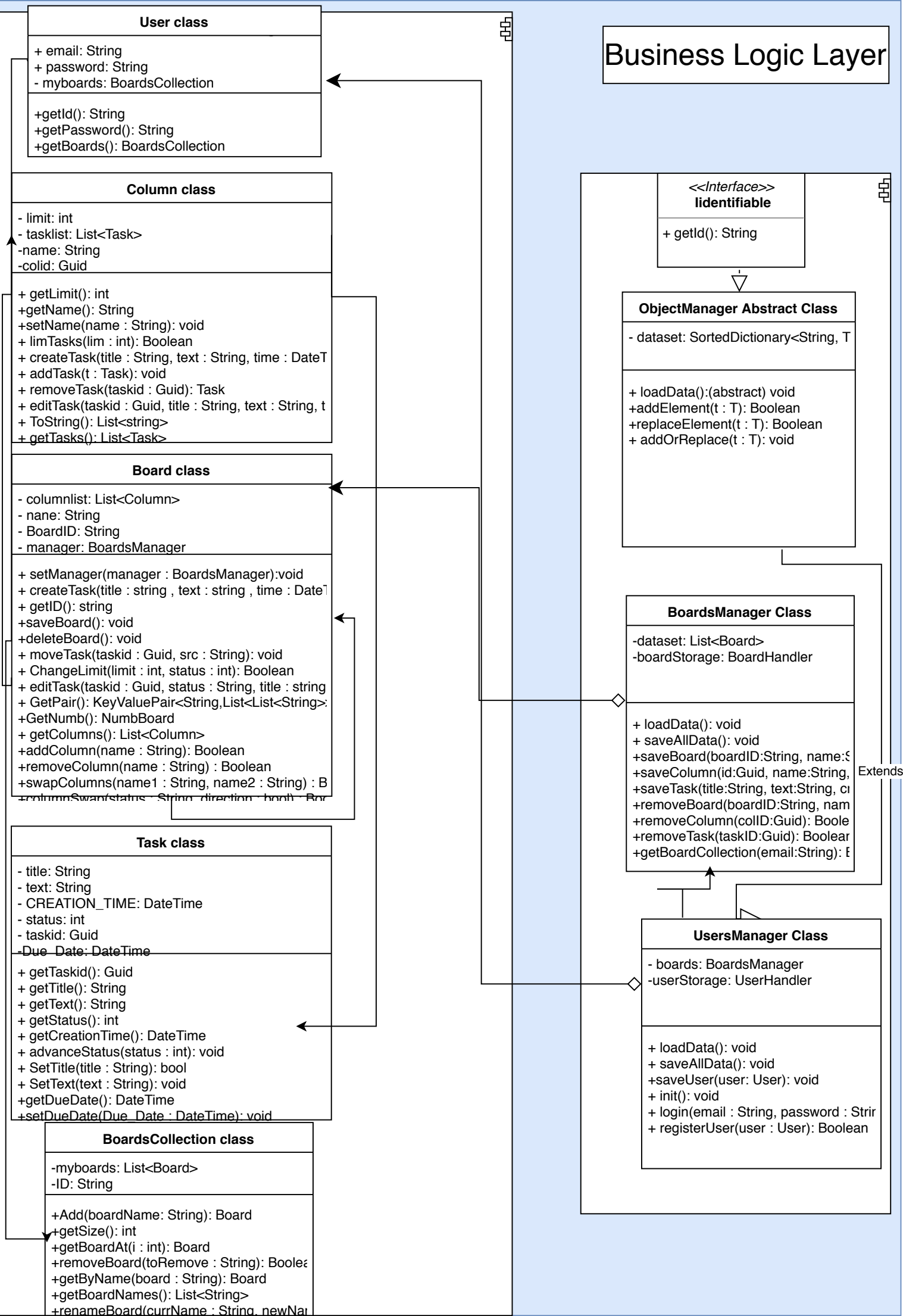


Business Logic Layer



Interface Layer

ModelObjects Package

ModelTask Class

+ taskid: Guid
+ title: String
+ text: String
+ status: String
+ CREATION_TIME: DateTime
+ Due_Date: DateTime

ModelColumn Class

+ tasks: List<ModelTask>
+ name: String
+ limit: int

ModelBoard Class

+ columns: List<ModelColumn>

Package

UserInter Class

- um: UsersManager<User>
- user: User
- myBoard: BoardInter

+ Login(email: String, password: String): Boolean
+ SignUp(email: String, password: String): bool
+ LogOut(): void
+ getMyBoard(): BoardInter

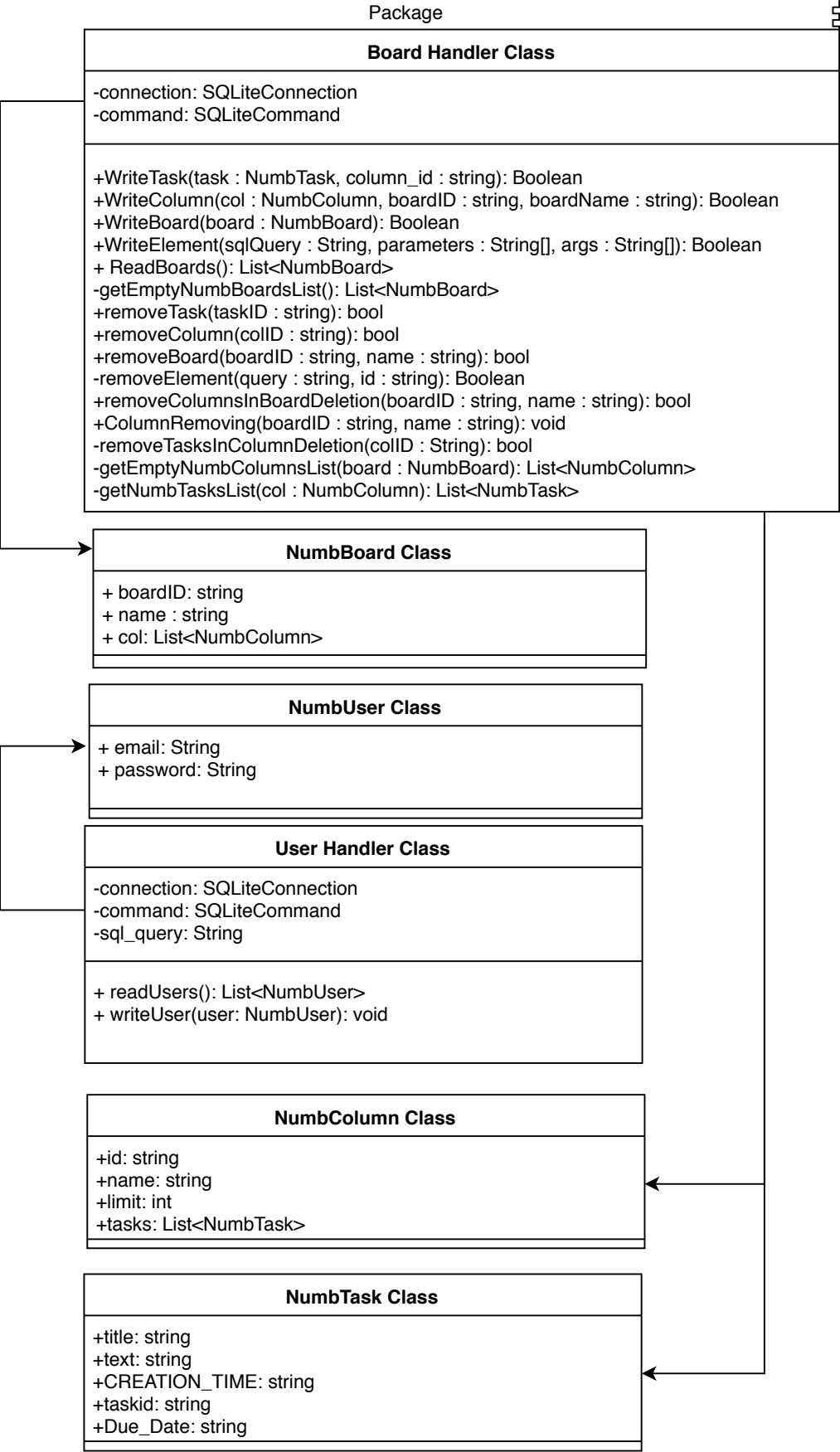
BoardInter Class

- myboards: BoardsCollection
- currBoard: Board

-addBoard(boardName : String): Board
-removeBoard(boardName : String): Boolean
-renameBoard(currName : String, newName : String): Boolean
+changeBoard(board : string): Boolean
+getBoardNames(): List<string>
+ createTask(title: String, text: String, due_date : DateTime): Boolean
+ moveTask(taskid: Guid, status: String): void
+ LimitColumn(limit : int, status : String): Boolean
+ RemoveLimit(status : String): Boolean
+ EditTask(taskid : Guid, status : String, title: String, text: String, due_date : DateTime): Boolean
+ getBoard(): ModelBoard
+printBoard(): void
+addColumn(name : String): Boolean
+removeColumn(name : String): Boolean
+swapColumns(name : String, dir : bool): Boolean
+renameColumn(curr : String, name : String): Boolean

Data Layer

Data Access Layer



**BoardWindow Class**

VM: BoardWindowDataContext
-myBoard: BoardInter
-ui: UserInter

-EditTask(): void
-LogOut(): void
-MoveTask(): void
-CreateTask(): void
-UpColumn(): void
-DownColumn(): void
-AddColumn(): void
-RenameColumn(): void
-RemoveColumn(): void
-LimitColumn(): void
-buttonUpdate_Click(sender : object, e : RoutedEventArgs): void
-Button_Click(sender : object, e : RoutedEventArgs): void
-createButton_Click(sender : object, e : RoutedEventArgs): void
-MoveTask_Click(sender : object, e : RoutedEventArgs): void
-UpCol_Click(sender : object, e : RoutedEventArgs): void
-DownCol_Click(sender : object, e : RoutedEventArgs): void
-AddCol_Click(sender : object, e : RoutedEventArgs): void
-RenameCol_Click(sender : object, e : RoutedEventArgs): void
-RemoveCol_Click(sender : object, e : RoutedEventArgs): void
-LimitCol_Click(sender : object, e : RoutedEventArgs): void
-changeBoard(): void
-ComboBox_SelectionChanged(sender : object, e : SelectionChangedEventArgs)

CreateTaskWindow Class

myboard: BoardInter
VM: BoardWindowDataContext
TC: TaskWindowDataContext

-createTask(): void
-Button_Click(sender : object, e : RoutedEventArgs): void

EditColumnWindow Class

myboard: BoardInter
VM: BoardWindowDataContext
-create: boolean
-winTitle: String

-setColumn(): void
-Button_Click(sender : object, e : RoutedEventArgs): void

EditTaskWin Class

myboard: BoardInter
VM: BoardWindowDataContext
TC: TaskWindowDataContext
taskid: Guid
status: String

-editTask(): void
-Button_Click(sender : object, e : RoutedEventArgs): void

ColumnLimitWindow Class

VM: BoardWindowDataContext
CLD: ColumnLimitDataContext
BI: BoardInter

-changeLimit(): void
-Button_Click(sender : object, e : RoutedEventArgs): void

Login Class

VM: UserWindowDataContext
-ui: UserInter

Presentation Layer

BoardWindowColumn Class

-status: String
-title: String
-text: String
- CREATION_TIME: DateTime
-Due_Date: DateTime
- taskid: Guid
-limit: int

BoardWindowDataContext Class

searchTerm: string
-boardNames: List<String>
-selected: BoardWindowColumn
-collectionView: ICollectionView
-tasks: ObservableCollection<BoardWindowColumn>
board: BoardInter

-UpdateFilter(): void
+ShowTheard(): void

TaskWindowDataContext Class

-title: String
-text: String
-due_date: DateTime

UserWindowDataContext Class

userName: string
pwd: string

ColumnLimitDataContext Class

limit:int
isLimited:Boolean

BoardSelectionDataContext Class

-selectedBoard: String
-nameText: String
-boardNames: List<String>

-login(): void
-signup(): void
-testing(): void
-Login_Click(sender : object, e : RoutedEventArgs): void
-TxtUser_TextChanged(sender : object, e : TextChangedEventArgs): void
-SignUp_Click(sender : object, e : TextChangedEventArgs): void

BoardSelectionWindow Class

-VM: BoardSelectionDataContext
-bi: BoardInter
-ui: UserInter

-addBoard(): void
-changeBoard(): void
-removeBoard(): void
-AddBoard_Click(sender : object, e : RoutedEventArgs): void
-RemoveBoard_Click(sender : object, e : RoutedEventArgs): void
-ChooseBoard_Click(sender : object, e : RoutedEventArgs): void
-List_DoubleClick(sender : object, e : MouseButtonEventArgs): void