

Presentation Layer

GUI

Action.cs
+action(List<GuiMessage> msgs) : List<GuiMessage>

GuiMessage
+ body: string
+ userName : string
+ g_id : string
+ dateTime : DateTime
+ id: string

ChatRoomWindow.xaml.cs
- msgLength: int
- chatRoom : ChatRoom
mainWindow: MainWindow
- obs : ObservableObject
- isOptionsVisible : boolean
- op : Options
- orderChoice : string
- filterChoice : string
- sortChoice : string
- actionList : List<Action>
- order : int
- msgs : List<GuiMessage>
- nicknames : List<string>
- groups : List<string>
- dispatcherTimer : DispatcherTimer

LoginWindow.xaml.cs
- mainWindow : MainWindow
- chatRoom : ChatRoom
- obs : ObservableObject
- BtnLogin_Click(object sender, RoutedEventArgs e) : void
- BtnBack_Click(object sender, RoutedEventArgs e) : void
- TxtBox_TextChanged(object sender, TextChangedEventArgs e) : void
- BtnRegister_Click(object sender, RoutedEventArgs e) : void

-dispatcherTimer_Tick(object sender, EventArgs e) : void
-LogOut(object sender, RoutedEventArgs e) : void
- Send(object sender, RoutedEventArgs e) : void
- Exit(object sender, RoutedEventArgs e) : void
- Options(object sender, RoutedEventArgs e) : void
+ getMembersOf(string g_id) : List<string>
- updateMessages(object sender, RoutedEventArgs e) : void
- getMessagesList() : void
- isMsgOnlySpaces() : bool
- TextBox_KeyDown(object sender, KeyEventArgs e) : void

ObservableObject.cs
+ PropertyChanged : PropertyChangedEventHandler
- txtSendContent : string
- isOptionVisible : object
-btnSendIsEnabled : bool
- groupIdContent: string
- PropertyChanged : string
- lblAddRegContent : string
- btnRegisterVisibility : string
- lblAddRegVisibility : string
- btnLoginIsEnabled : bool
-btnRegIsEnabled: bool

RegisterWindow.xaml.cs
- chatRoom: ChatRoom
- mainWindow: MainWindow
- obs: ObservableObject
- nickname: string

-btnRegisEnabled: bool

-groupIdText : string

- nicknameText: string

-lblRegErrorVisibility: string

-lblRegErrorContent: string

-btnLoginVisibility: string

-lblAddLoginContent : string

-lblAddLoginVisibility : string

-ascendingIsChecked : bool

-descendingIsChecked: bool

- selectedGroup : int

- f_NonIsChecked : bool

- f_UserIsChecked: bool

- f_GroupIsChecked : bool

-s_AllIsChecked : bool

-s_TimelsChecked : bool

- s_NicknamesIsChecked: bool

- isGroupFiltered : string

- isUserFiltered: string

- isGroupFiltered : string

- isGroupFiltered : string

- isGroupFiltered : string

- Messages_CollectionChanged(object sender, NotifyCollectionChangedEventArgs e) : void

+ OnPropertyChanged([CallerMemberName] string propertyName = null) : void

- groupId: string

+ GetChatRoom(): ChatRoom

- BtnBack_Click(object sender, RoutedEventArgs e): void

- BtnRegister_Click(object sender, RoutedEventArgs e): void

- TextBox_TextChanged(object sender, TextChangedEventArgs e):

- BtnLogin_Click(object sender, RoutedEventArgs e): void

Options.xaml.cs

- obs: ObservableObject

- chatRoom: ChatRoom

- filterChoice: string

- sortChoice: string

- orderChoice: string

- tFilterChoice: string

- tSortChoice: string

- tOrderChoice: string

- prevFilter: string

- prevSort: string

- prevOrder: string

- isChanged: bool

- isLegalData: bool

- users: List<string>

- groups: List<string>

- userChoice: string

- groupChoice: string

- SortNickname(object sender, RoutedEventArgs e): void

- SortAll(object sender, RoutedEventArgs e): void

- SortTime(object sender, RoutedEventArgs e): void

- SortAscending(object sender, RoutedEventArgs e): void

- SortDescending(object sender, RoutedEventArgs e): void

- FilterNone(object sender, RoutedEventArgs e): void

- FilterG_Id(object sender, RoutedEventArgs e): void

- FilterUser(object sender, RoutedEventArgs e): void

- btnOk(object sender, RoutedEventArgs e): void

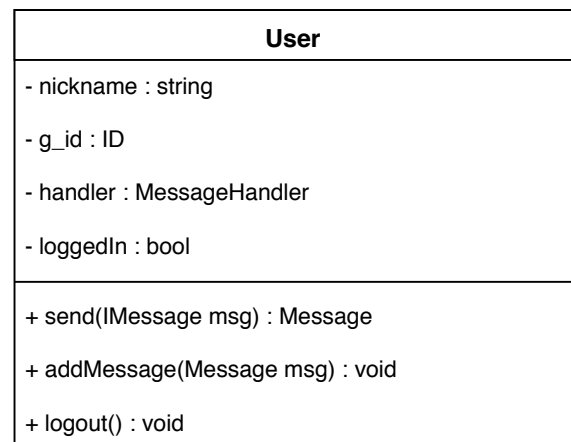
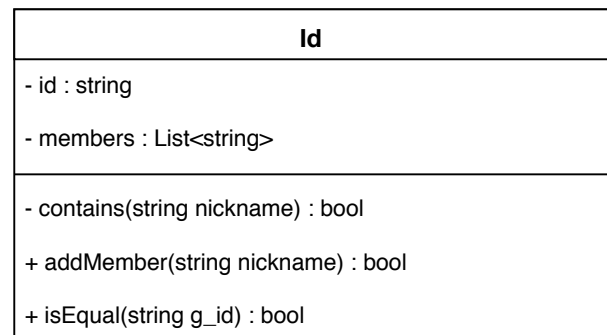
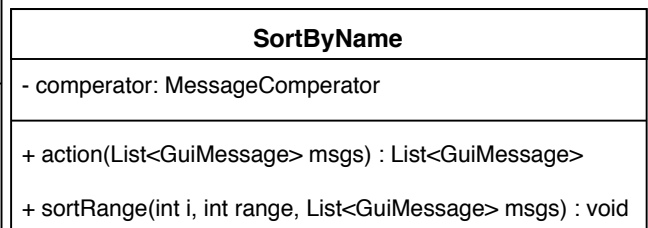
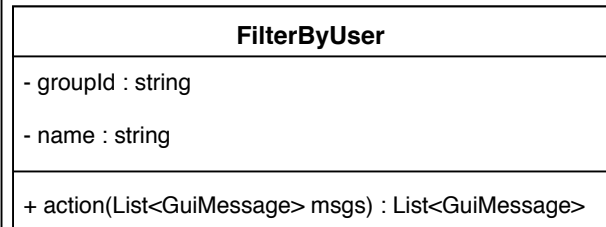
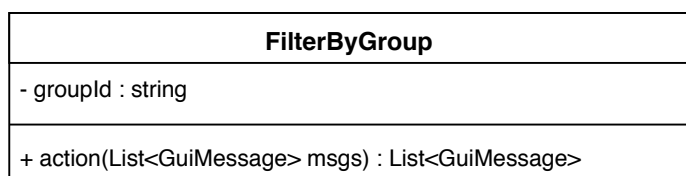
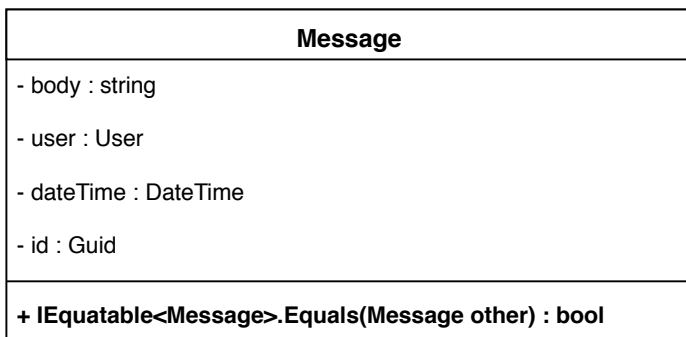
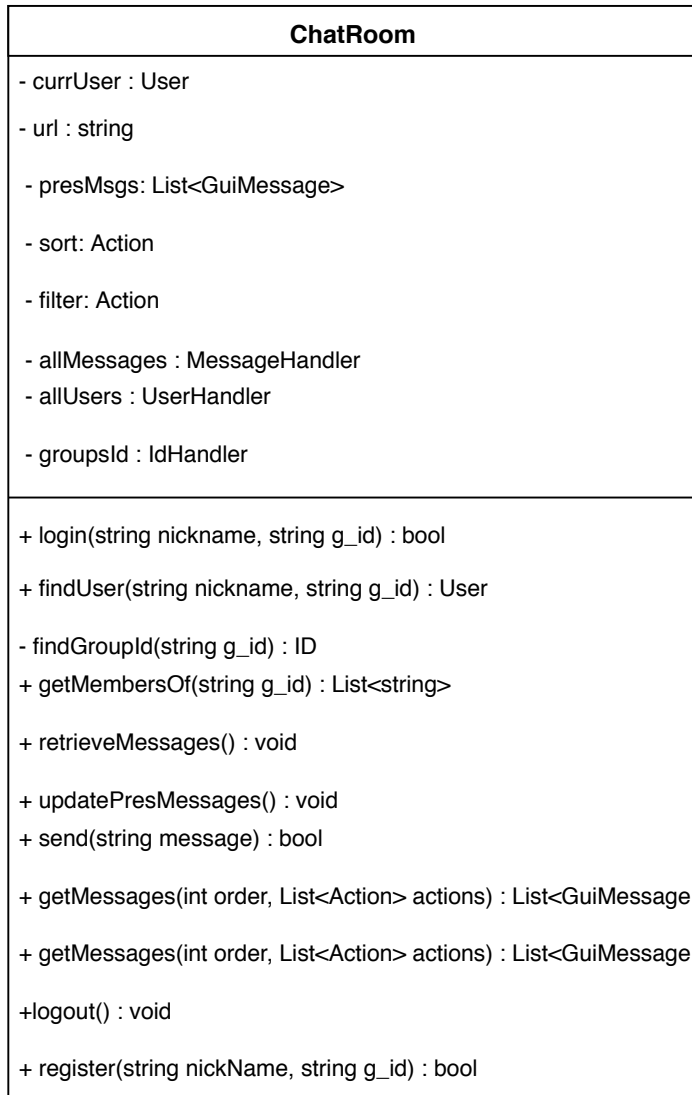
- addGroups(object sender, RoutedEventArgs e): void

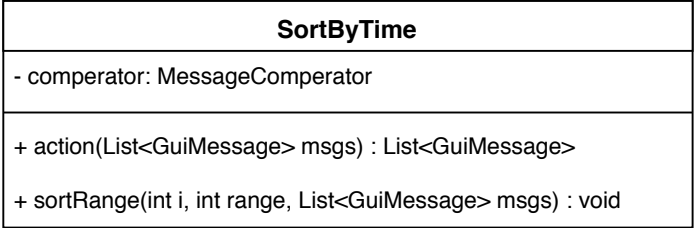
- groupList(object sender, SelectionChangedEventArgs e): void

- addUsers(object sender, RoutedEventArgs e): void

- userList(object sender, SelectionChangedEventArgs e): void

Business (Logic) Layer





Persistent Layer

