|  |
| --- |
| Message |
| + sender : String  + receiver : String  + content : String  + read : Boolean  + timeStamp : String  + messageType : Enum |
| + getSender()  + getReceiver()  + getContent()  + getRead()  + getTimeStamp()  + getMessageType ()  + ToString() |

|  |
| --- |
| User |
| + employeeName : String  + id : String  + password : String  + IT\_User : Boolean  + location : String |
| + createAccount\_IT()  + createGroup()  + deleteAccount\_IT()  + viewMessageLog()  + sendMessage()  + displayMessage ()  + displayMessage\_IT ()  + ToString() |

|  |
| --- |
| MessageLog |
| + filename : String  + message : Array/Vector |
| + setFile()  + getFile()  + loadMessageFile(filename)  + searchMessageLog(String sender, String receiver)  + saveMessageLog()  + addMessage (messageType)  + ToString() |

|  |
| --- |
| UserVerify |
| + userType : Array/Vector  + filename : String |
| + setFile()  + getFile()  + loadUserFile(filename)  + saveUserFile(filename)  + searchUser(String id)  + addUser\_IT (User type)  + ToString() |

|  |
| --- |
| Server |
| + socket : String  + portNumber : String |
| + communicate() |

|  |
| --- |
| Client |
| + socket : String  + portNumber : String |
| + communicate() |

|  |
| --- |
| GroupList |
| + createGroup()  + getGroupName()  + getFileName()  + setGroupName()  + setFileName()  + addUsers(String groupName, String id)  + loadGroupFile (filename)  + saveGroupFile()  + searchGroupFile()  + ToString() |

|  |
| --- |
| Inactivity |
| + Start : Integer/0  + End : Integer |
| + resetStart()  + backgroundTimer()  + logoutInactivity() |

|  |
| --- |
| Logout |
| + socket : String |
| + closeSocket(socket) |

|  |
| --- |
| Employee\_GUI |
|  |
| + createGroup()  + displayChat()  + displayContacts()  + displayLogout()  + displayLogin()  + sendMessage() |

|  |
| --- |
| IT\_GUI |
|  |
| + createGroup()  + displayChat()  + displayContacts()  + displayLogout()  + displayLogin()  + sendMessage()  + deleteAccount()  + displayChatLog() |