**INTERFACE SPECIFICATIONS**

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| Interface | GroupWindow |
| Description | Allows a user to create a group with at most 6 persons |
| Operations | String – getContactName() : Get the String from the field where you put the name of the contact you want to add to your group and returns the contact name.  String – getGroupName(): Get the String from the field where you put the name of the group and returns the group name.  Array<String> - getContactList(): Get the list filled with your contact’s name and return the list.  Void – sendFirstMessagetoGroup(int GroupID):Send a first message in the group.  Int – getGroupID(String GroupName, String MembersList, int MemberNumber):  Get the ID of the group, return the ID or return 0 if it’s null.  Void – createGroup(String name): Create a group in the database with all the contact names including you.  Boolean – checkIfExists(String pseudo): Check if the contact you want to add exists in the database. |
| Exceptions | SQLException |
| Notes | No notes |
| Issues | None known |

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| Interface | connectionWindow |
| Description | Allow the user to sign in or to go to the register window if they are not registered |
| Operations | String – getPseudo () : Get the String from the field where you put your pseudo; returns your pseudo.  String – getPassword(): Get the String from the field where you put your password; returns your password.  Boolean – checkConnection(String Pseudo, String Password): Check if the contact exists in the database; return true. |
| Exceptions | SQLException |
| Notes | No notes |
| Issues | None known |

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| Interface | RegisterGUI |
| Description | Allows a user to create a group with at most 6 persons |
| Operations | String – getPseudo () : Get the String from the field where you put your pseudo; returns your pseudo.  String – getPassword(): Get the String from the field where you put your password; returns your password.  boolean checkAlreadyExists(String Pseudo, String Password): Check if another user in the database has the same pseudo/password.  void addUser(String Pseudo, String Password): Add another row in the database representing another user with the pseudo and password |
| Exceptions | SQLException |
| Notes | No notes |
| Issues | None known |

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| Interface | MessageWindow |
| Description | Main window where you can exchange with your contacts, groups, add contacts to your contact list or create groups. |
| Operations | String getGroupMembers(int GroupID) : Get all the user names belonging to the group; return their names.  void loadContacts(User moi) : Get all the contacts of the current user; Add them to the contact list.  void loadMessages(int friendID) : Get all the messages between you and the user which has the friendID; Display them.  String getPseudoFromID(int ID) : Get the pseudo corresponding to the ID in the database; Returns the pseudo.  int getIDFromPseudo(String Pseudo) : Get the ID corresponding to the pseudo in the database; Returns the ID.  String getGroupName(int GroupID) : Get the name of the group corresponding to the GroupID; return the name of the group.  int getGroupIDFromGroupName(String GroupName) : Get the ID of the group corresponding to that group name; return the group ID  boolean checkContactexists(String Pseudo) : Check if the pseudo, therefore the contact, exists in the database.  void addContact(String toUser) : Add the user corresponding to the pseudo toUser to the database and the contact list.  void sendMessage(String toUser, String MessageContent): Send the message (MessageContent) to the user (toUser). |
| Exceptions | SQLException |
| Notes | No notes |
| Issues | None known |