**Protocol**

Table 1 Version Control Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Version | Meeting ID | Editor | Recheck | Change |
| 1.01.20141130 | 12 | Super |  | First version |
| 2.01.20141215 | 18 | Super |  | Remove chat history, category, groupCategery |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**Client 🡺 Server**

|  |  |  |  |
| --- | --- | --- | --- |
| Activity | tOM | Other information except MSG(serdId,tOM) | The really used package |
| connectToServer | Not needed | Server’s Ip and portNumber | Not needed |
| init | init | Not needed | MSG |
| register | register | text = “psw (in MD5 type), question, answer” | TextMSG |
| login | login | text = psw (in MD5 type) | TextMSG |
| logout | logout | Not needed | MSG |
| getQuestion | getQuestion | Not needed | MSG |
| alterPsw | alterPsw | text = new psw(MD5) | TextMSG |
| sendTextMSG | sendTextMSG | receiverId = recievierId, text | TextMSG |
| sendGroupTextMSG | sendGroupTextMSG | receiverId = groupId, text | TextMSG |
| sendFileMSG | sendFileMSG | receiverId = recievierId, file | FileMSG |
| sendGroupFileMSG | sendGroupFileMSG | receiverId = groupId, file | FileMSG |
| getFile(when user clicked “accept” in chat windon) | getFile | text = fileLink | TextMSG |
| findById | findById | receiverId = userId/groupId  text = userInfo/groupInfo | TextMSG |
| addFriend | addFriend | receiverId = userId | TextMSG |
| renameFriend | renameFriend | receiverId = userId  text = uerNickname | TextMSG |
| deleteFriend (on server, this operation should do twice for both two user) | deleteFriend | receiverId = userId | TextMSG |
| inviteToGroup | inviteToGroup | receiverIds = List<String>  text = invite message | InviteToGroupMSG |
| createGroup | addGroup | receiverId = groupId | TextMSG |
| renameGroup | renameGroup | receiverId = groupId  text = groupName | TextMSG |
| deleteGroup | deleteGroup | receiverId = groupId | TextMSG |
| deleteGroupMember | deleteGroupMember | receiverId = groupIn  text = userId | TextMSG |

**Server 🡺 Client**

|  |  |  |  |
| --- | --- | --- | --- |
| Activity | tOM | Other information except MSG(serdId,tOM) | The really used package |
| init | init | contactList | InitMSG |
| error | error | serdId = error information, | MSG/ MessageMSG |
| confirm | confirm | serdId = confirm information | MSG/ MessageMSG |
| transferTextMSG | text | text, time, | MessageMSG |
| transferFileMSG | file | text=fileName, link, time | MessageMSG |
| inviteToGroup | inviteToGroup | senderId = investor, text = groupId | MessageMSG |

**MSG TYPE**

1. **MSG**

**public** **class** MSG {

**private** String senderId;

**private** String tOM;

}

1. **TextMSG**

**public** **class** TextMSG **extends** MSG{

**private** String receiverId;

**private** String text;

}

1. **FileMSG**

**public** **class** FileMSG **extends** MSG{

**private** String receiverId;

**private** File file;

}

1. **InitMSG**

**public** **class** InitMSG **extends** MSG{

**private** ContactList contactList;

}

1. **InviteToGroupMSG**

**public** **class** InviteToGroupMSG **extends** MSG{

**private** List<String> receiverIds;

**private** String text;

}

1. **MessageMSG**

**public** **class** MessageMSG **extends** MSG{

**private** String text;

**private** String link;

**private** String time; }