

## Entity Relation Description

### Users

userid (userID serial primary key): primary key for the user  
name (name varchar(20)): name of the user  
email (email varchar(30)): email of the user  
password (password varchar(20)): password of the user account  
username (username varchar(20)): username of the user  
phone (phone varchar(20)): phone of the user

### Chats

chatid (chatID serial primary key): primary key of the chat  
admin (admin integer references Users(userID)): foreign key reference to the user that administrates the chat  
name (name varchar(20)): name of the chat

### Messages

messageid (serial primary key): message primary key  
poster (integer references Users(userID)): foreign key reference to the user that wrote the message  
chat (integer references Chats(chatID)): foreign key reference to the chat where message was wrote on  
message (varchar(120)): message wrote by the user  
timestamp (date): date and time when the message was wrote

### Reply

replyid (serial primary key): reply primary key  
messageid (integer references Messages(messageID)): new message that is replying to an existing one  
replyingto (integer references Messages(messageID)): existing message to where the new message is replying to

### Likes

likeid (serial primary key): primary key for like reaction  
likevalue (integer): 1 if it's a like 0 if it's a dislike value  
message (integer references Messages(messageID)): message that is being reacted on

userid (integer references Users(userID)): user that is reacting to the message

### **Contacts**

contactid (serial primary key): contact primary key

holder (integer references Users(userID)): id of the user that is saving the contact

friend (integer references Users(userID)): contact being saved on the holder contact book

### **Members**

memberid (integer primary key): primary key of the member and chat relationship

chat (integer references Chats(chatID)): chat where the user is member

userid (integer references Users(userID)): user that is member of the chat