ChatUp

Chat App is a messenger software
that uses **Chat groups** for message interchange.

to run: go to **ChatApp-Java\out\artifacts\ChatApp_Java_jar**
and execute in cmd: **java -jar ChatApp-Java.jar**

roles

Each role has 3 maps of Rights
- **rights on Users**
- **rights on Chats**
- **rights on Messages**

Each map has boolean values of specific role rights.
(eg. CanCreateChat = False
means this user does not have the right to create a new chat)

Currently there are 4 roles
admin
manager
editor
viewer

users

Each **user** has one **role.**
A User has **a list of Chats** that is joined in.
Each User can be part of **one or more** Chats.
A user can
edit its profile,
search for other users
create a new chat
and more

chats

Each Chat has a **creator**, joined **users** and **messages.**
A chat can have one or more users.
(Admin is always member of a chat but cannot be viewed or removed)

messages

Each Message has a **creator** and some **data**

rights per role

1.RIGHTS ON **USERS** FOR EACH ROLE

	1.1 Create User	1.2 Search User	1.3 Toggle User	1.4 Change User Type	1.5 Edit User	1.6 Edit Self
admin	1	1	1	1	1	1
manager	1	1	1	0	0	1
editor	0	1	0	0	0	1
viewer	0	0	0	0	0	1

2.RIGHTS ON **CHATS** FOR EACH ROLE

	2.1 Create Chat	2.2 Search Chat	2.3 Get Chat Table	2.4 View Chats	2.5 Edit Chat Name	2.6 Toggle Chat	2.7 Delete Chat	2.8 Add User to Chat	2.9 Get Chat Users	2.10 Exit Chat	2.11 Enter Chat	2.12 Toggle Chat User
admin	1	1	1	1	1	1	1	1	1	1	1	1
manager	1	1	0	1	1	1	0	1	1	1	1	1
editor	1	1	0	1	0	0	0	1	1	1	0	1
viewer	0	0	0	1	0	0	0	0	0	0	0	0

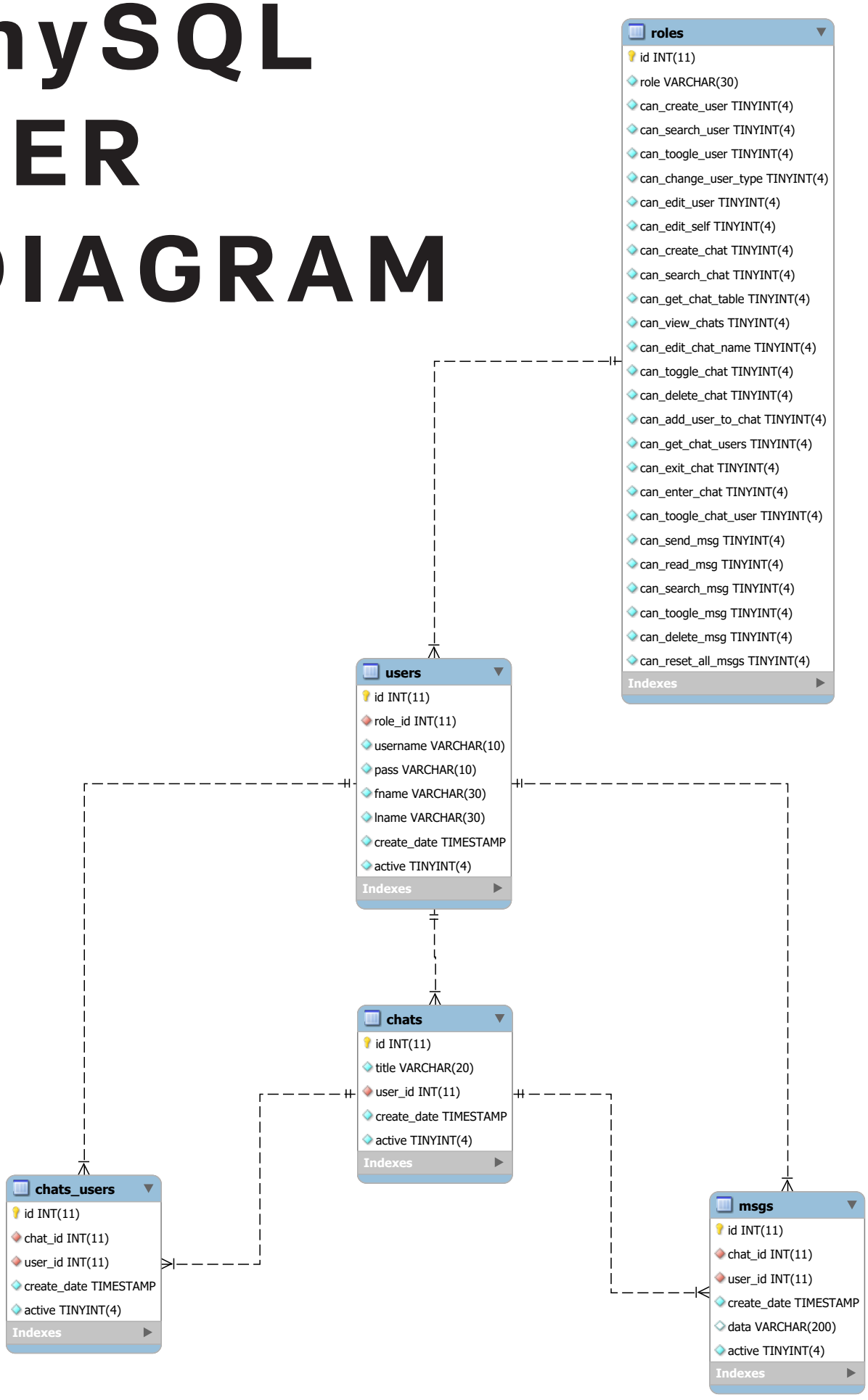
3.RIGHTS ON **MESSAGES** FOR EACH ROLE

	Send Message	Read Message	Search Message	Toggle Message	Reset All Messages	Delete Messages
admin	1	1	1	1	1	1
manager	1	1	1	1	1	0
editor	1	1	1	0	0	0
viewer	0	1	1	0	0	0

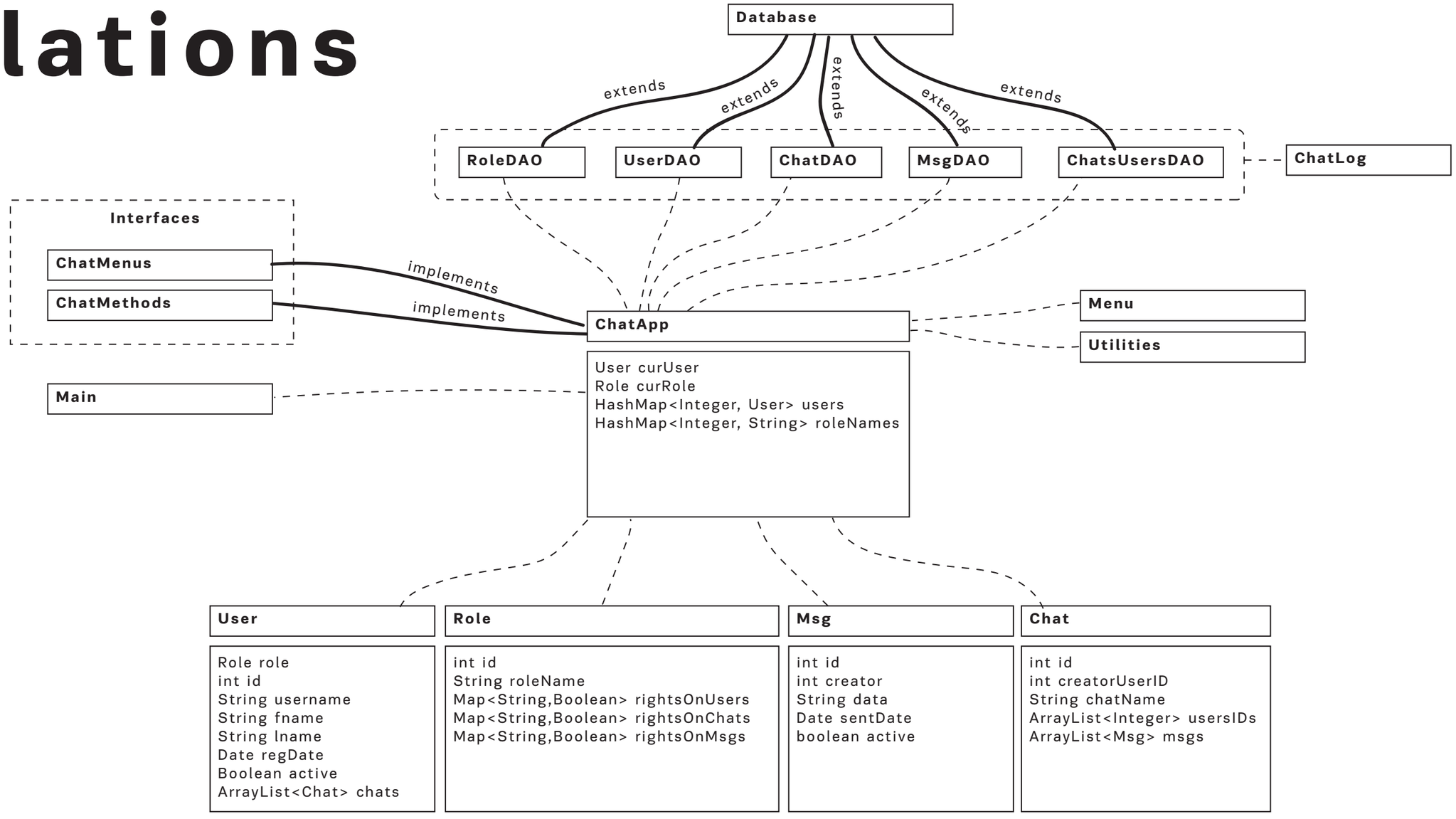
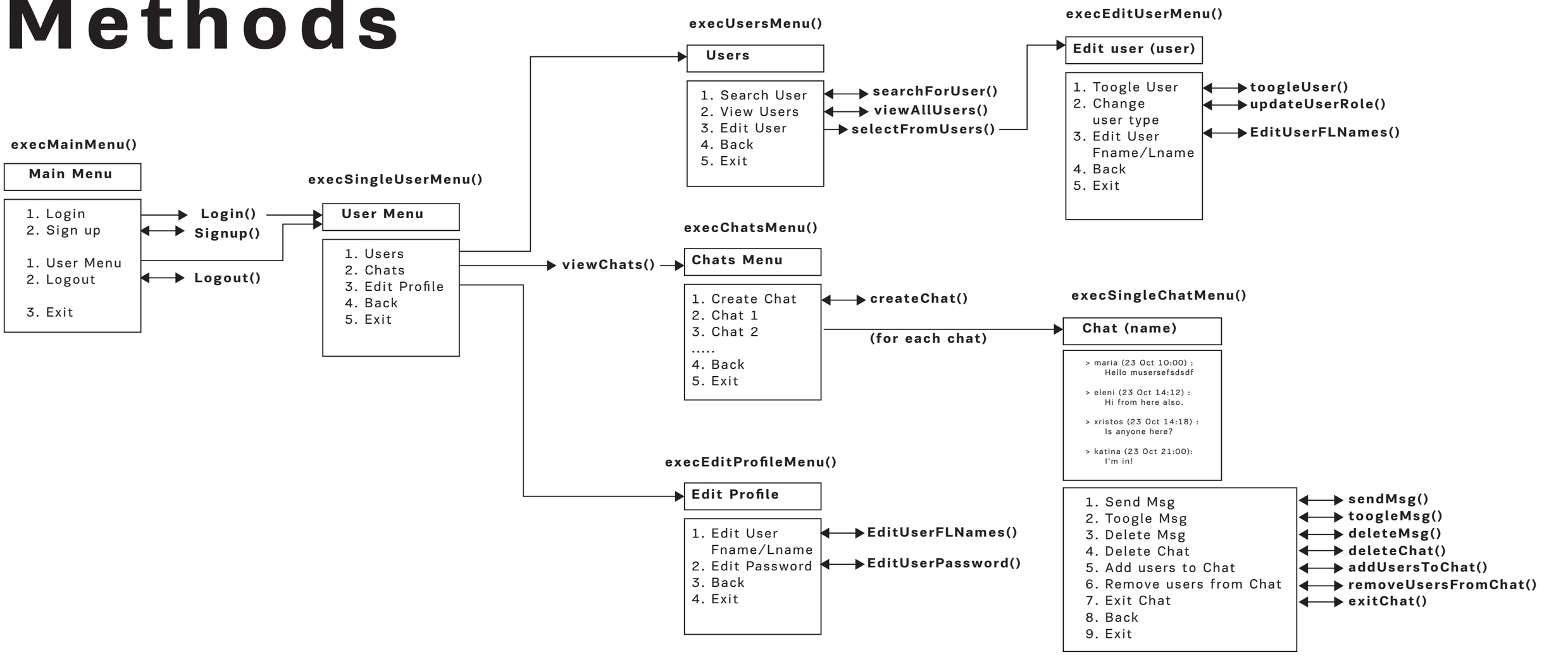
log

Every user activity that **retrieves, selects, updates of deletes data** from the database is logged to a file named “ChatAppActivity.log”
Optionally all Database tables can be logged at the time the program initiates in various .log files in “db/” folder.

mySQL EER DIAGRAM



Classes and Relations



Menus and Methods