Assignment 3
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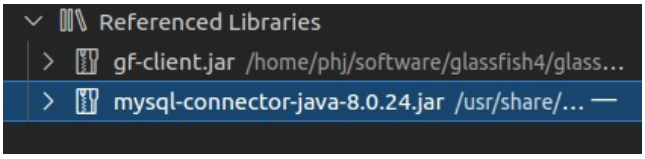
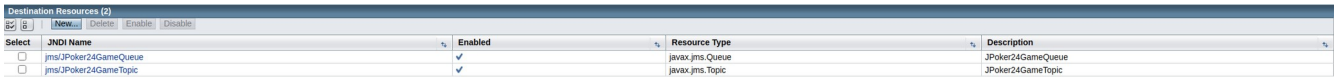
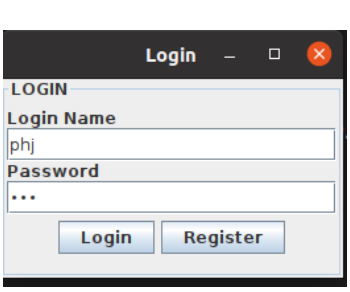
How to run?
You should need 3 setup. There are JMS RMI JDBN
1. RMI
run the rmiregistry in the working directory
2. JMS
using the glassfish4 to register JMS connection factory, Topic, Queue

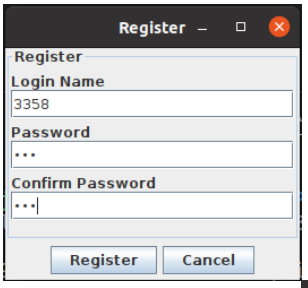
3. JDBC
open the local mysql server and input the follow command
CREATE DATABASE 24Game;
GRANT ALL ON c3358.* to 'c3358'@'localhost';
CREATE TABLE 24Game_UserList (
-> username varchar(16) NOT NULL,
-> password varchar(32) NOT NULL,
-> win_number INT(5),
-> game_number INT(5),
-> avg_time FLOAT(10),
-> PRIMARY KEY username (username)
->);
4. compile the file
for server
/usr/bin/env /usr/lib/jvm/java-1.8.0-openjdk-amd64/bin/java -Djava.security.policy=./security.policy -Dfile.encoding=UTF-8 -cp GameServer
for the client
cd software/Gminer/cd /home/phj/Downloads/test/JPoker_24_Game ; /usr/bin/env /usr/lib/jvm/java-1.8.0-openjdk-amd64/bin/java -Djava.security.policy=./security.policy -Dfile.encoding=UTF-8 -cp /tmp/cp_5odlhhubhghrelj2aapw57dyi.jar GameGUI 127.0.0.1
add the reference library into workplace

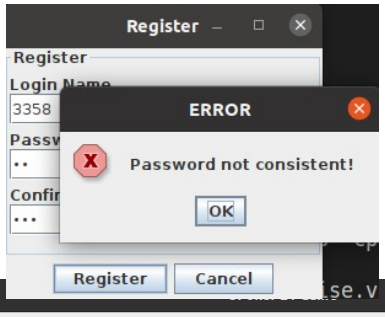


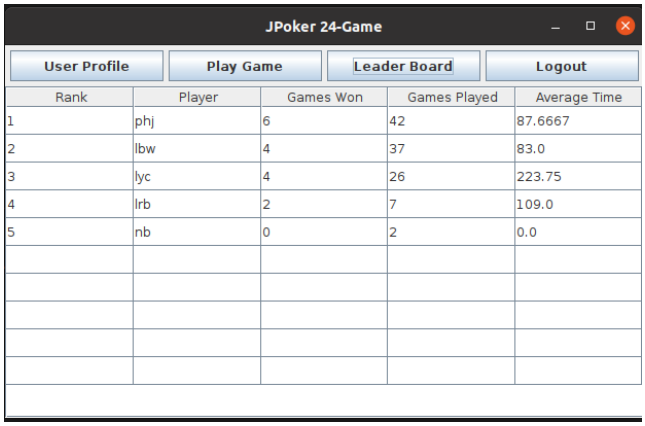


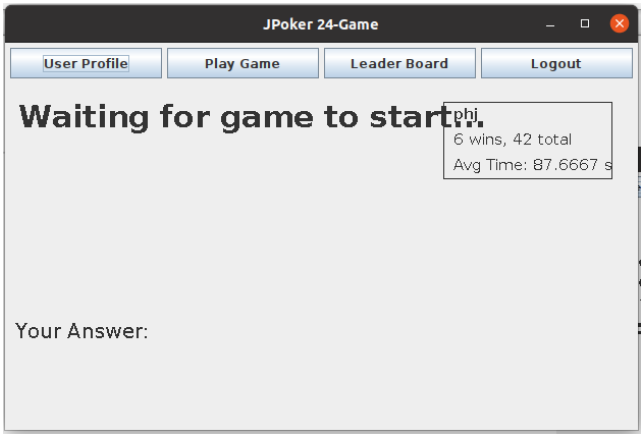
what is the appearance?
Front end

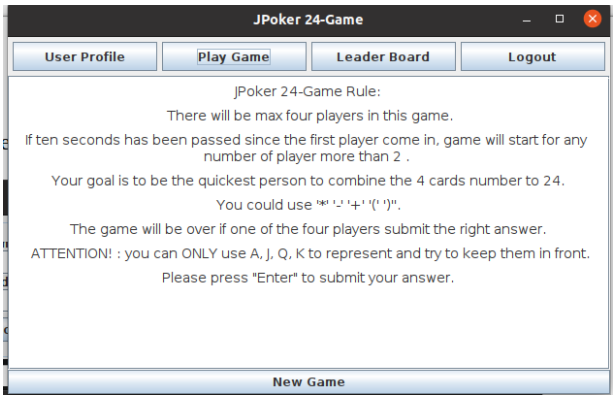


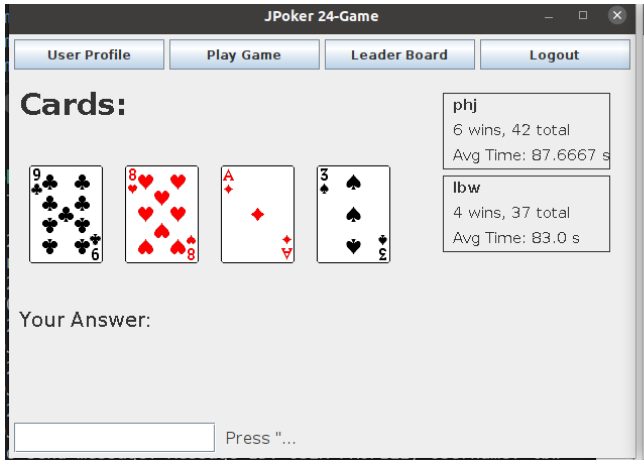


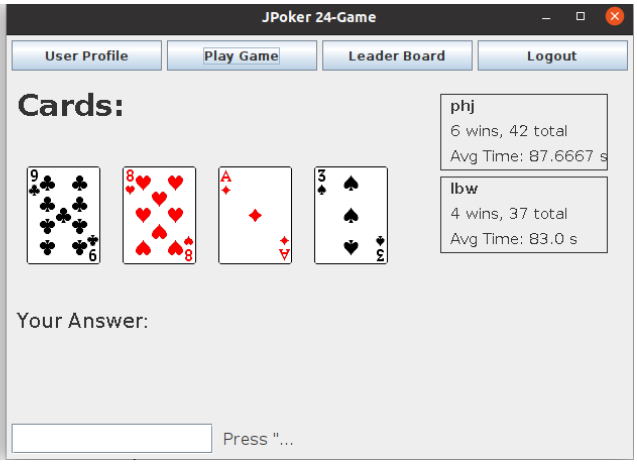




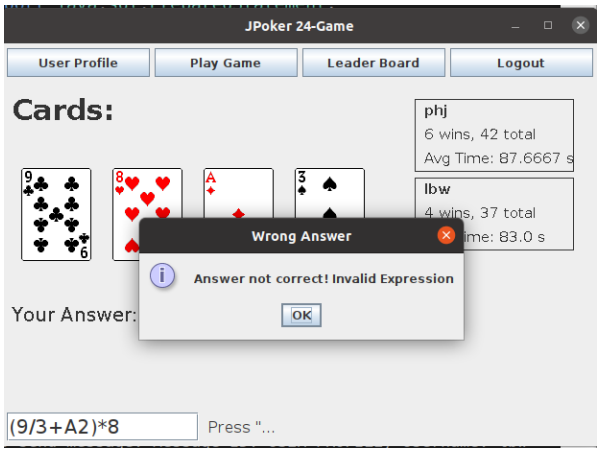


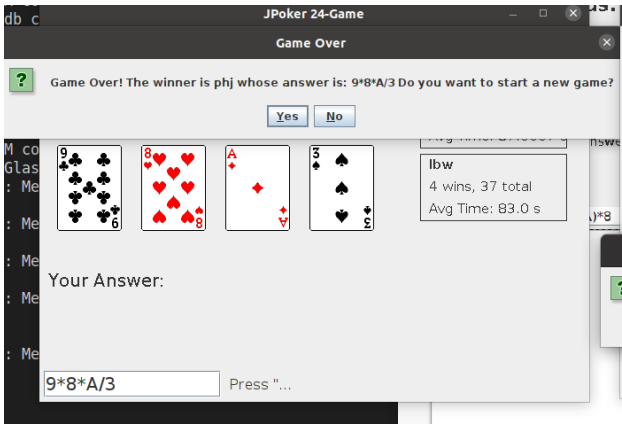




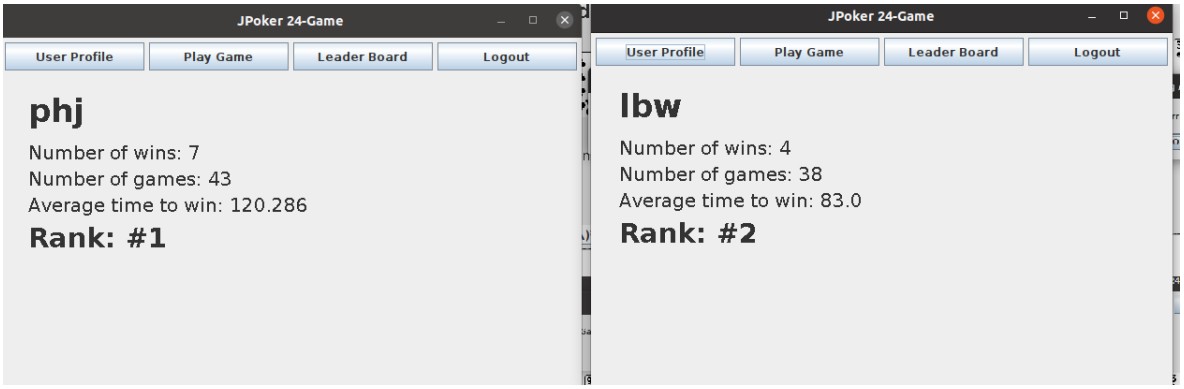


JPoker 24-Game
User Profile
Play Game
Leader Board
Logout
Cards:
phj
6 wins, 42 total
Avg Time: 87.6667 s
Wrong Answer
Answer not correct! The value of your expression is: 32.0
OK
Your Answer:
(9/3+A)*8
Press "...


JPoker 24-Game
User Profile
Play Game
Leader Board
Logout
Cards:
phj
6 wins, 42 total
Avg Time: 87.6667 s
lbw
4 wins, 37 total
Wrong Answer
Answer not correct! Invalid Expression
OK
Your Answer:
(9/3+A2)*8
Press "...


JPoker 24-Game
Game Over
Game Over! The winner is phj whose answer is: 9*8*A/3 Do you want to start a new game?
Yes
No
lbw
4 wins, 37 total
Avg Time: 83.0 s
Your Answer:
9*8*A/3
Press "...

JPoker 24-Game
User Profile
Play Game
Leader Board
Logout
Cards:
phj
6 wins, 42 total
Avg Time: 87.6667 s
lbw
4 wins, 37 total
Avg Time: 83.0 s
Game Over
Game Over! The winner is phj whose answer is: 9*8*A/3 Do you want to start a new game?
Yes
No
Press "...


JPoker 24-Game
User Profile
Play Game
Leader Board
Logout
phj
Number of wins: 7
Number of games: 43
Average time to win: 120.286
Rank: #1
JPoker 24-Game
User Profile
Play Game
Leader Board
Logout
lbw
Number of wins: 4
Number of games: 38
Average time to win: 83.0
Rank: #2

Back-end

```
-Dfile.encoding=UTF-8 -cp /tmp/cp_5odlhhubhghrelj2aapw57dyi.jar GameServer
Loading class `com.mysql.jdbc.Driver'. This is deprecated. The new driver class is `com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI and manual loading of the driver class
is generally unnecessary.
Database connection successful.
May 21, 2021 9:37:35 PM com.sun.enterprise.v3.server.CommonClassLoaderServiceImpl findDerbyClient
INFO: Cannot find javadb client jar file, derby jdbc driver will not be available by default.
May 21, 2021 9:37:37 PM org.hibernate.validator.internal.util.Version <clinit>
INFO: HV000001: Hibernate Validator 5.1.2.Final
May 21, 2021 9:37:37 PM com.sun.messaging.jms.ra.ResourceAdapter start
INFO: MQJMSRA_RA1101: GlassFish MQ JMS Resource Adapter: Version:  5.1.1  (Build 2-c) Compile:  March 17 2015 1045
May 21, 2021 9:37:37 PM com.sun.messaging.jms.ra.ResourceAdapter start
INFO: MQJMSRA_RA1101: GlassFish MQ JMS Resource Adapter starting: broker is REMOTE, connection mode is TCP
May 21, 2021 9:37:37 PM com.sun.messaging.jms.ra.ResourceAdapter start
INFO: MQJMSRA_RA1101: GlassFish MQ JMS Resource Adapter Started:REMOTE
Checking the password: phj
Receive Message - user profile: phj
Retrieving user profile: phj
To phj. Trying to send message: USER_PROFILE
Receive Message - user profile: phj
Retrieving user profile: phj
To phj. Trying to send message: USER_PROFILE
Receive Message - Leader board: phj
Getting all user list from the database...
To phj. Trying to send message: LEADER_BOARD
Receive Message - user profile: phj
Retrieving user profile: phj
To phj. Trying to send message: USER_PROFILE
Receive Message - New game: phj
To phj. Trying to send message: WAIT
ten seconds passed status:1
Checking the password: lbw
Receive Message - user profile: lbw
Retrieving user profile: lbw
To lbw. Trying to send message: USER_PROFILE
Receive Message - Leader board: lbw
Getting all user list from the database...
To lbw. Trying to send message: LEADER_BOARD
Receive Message - user profile: lbw
Retrieving user profile: lbw
To lbw. Trying to send message: USER_PROFILE
Receive Message - New game: lbw
To phj. Trying to send message: START
```

```
./security.policy  -Dfile.encoding=UTF-8 -cp /tmp/cp_5odlhhubhghrelj2aapw57dyi.jar GameGUI 127.0.0.1
bash: cd: too many arguments
May 21, 2021 9:40:07 PM com.sun.enterprise.v3.server.CommonClassLoaderServiceImpl findDerbyClient
INFO: Cannot find javadb client jar file, derby jdbc driver will not be available by default.
May 21, 2021 9:40:09 PM org.hibernate.validator.internal.util.Version <clinit>
INFO: HV000001: Hibernate Validator 5.1.2.Final
May 21, 2021 9:40:09 PM com.sun.messaging.jms.ra.ResourceAdapter start
INFO: MQJMSRA_RA1101: GlassFish MQ JMS Resource Adapter: Version:  5.1.1  (Build 2-c) Compile:  March 17 2015 1045
May 21, 2021 9:40:09 PM com.sun.messaging.jms.ra.ResourceAdapter start
INFO: MQJMSRA_RA1101: GlassFish MQ JMS Resource Adapter starting: broker is REMOTE, connection mode is TCP
May 21, 2021 9:40:09 PM com.sun.messaging.jms.ra.ResourceAdapter start
INFO: MQJMSRA_RA1101: GlassFish MQ JMS Resource Adapter Started:REMOTE
Trying to send message: Message ID: USER_PROFILE; Username: lbw
Get user profile!
Trying to send message: Message ID: LEADER_BOARD; Username: lbw
Get leader board!
Trying to send message: Message ID: USER_PROFILE; Username: lbw
Get user profile!
Trying to send message: Message ID: NEW_GAME; Username: lbw
Game starts!
Game over!
Trying to send message: Message ID: UPDATE; Username: lbw
The winner is: phj
Trying to send message: Message ID: USER_PROFILE; Username: lbw
Get user profile!
```