

Test Report

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Basic Client/Server Model

1. User authentication

Frstt open server:

```
Linyins-MacBook-Pro:src Linyin$ make
javac Server.java
javac Client.java
Linyins-MacBook-Pro:src Linyin$ java Server 4242
Server is running...
```

then another terminal:

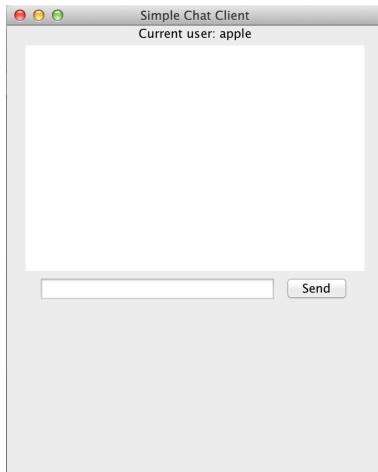
```
dyn-160-39-237-5:src Linyin$ java Client 127.0.0.1 4242
Username:apple
Password:d
Invalid Password. Please try again
Password:d
Invalid Password. Please try again
Password:d
Error: Invalid Password. Your account has been blocked. Please try again after sometime.
dyn-160-39-237-5:src Linyin$ java Client 127.0.0.1 4242
Username:apple
Error: Your account has been blocked. Please try again after sometime.
dyn-160-39-237-5:src Linyin$
```

After 3 consecutive failed attempts, the user is blocked for a duration of 60 seconds.

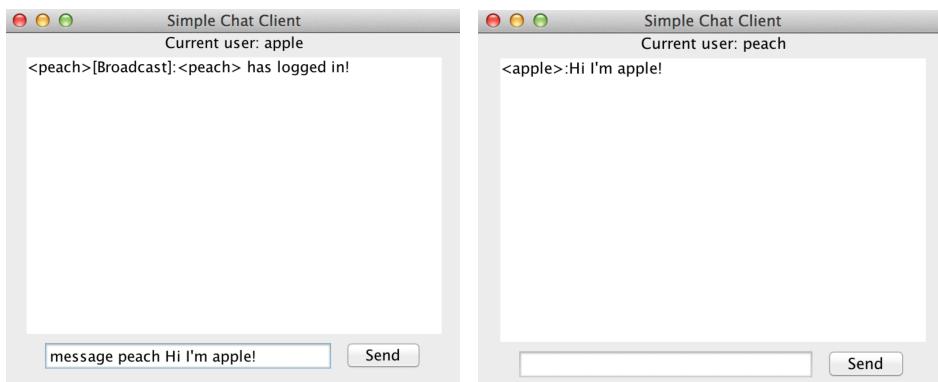
Then 6os later:

```
Error: Your account has been blocked. Please try again after sometime.
dyn-160-39-237-5:src Linyin$ java Client 127.0.0.1 4242
Username:apple
Password:a
Finished login
37597
jump out of login and run nomally
37597
```

login successfully, comes to the UI.



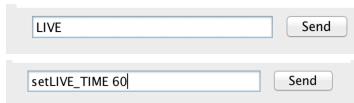
2. Message exchange



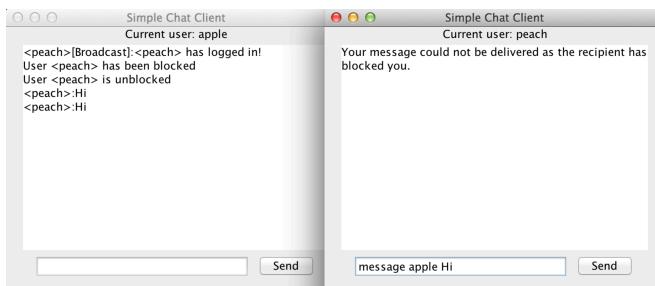
3. Multiple clients support

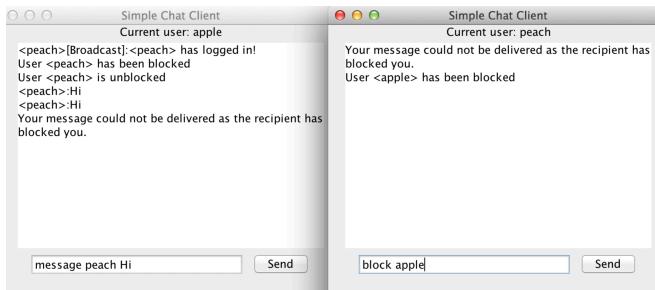


4. Heartbeat

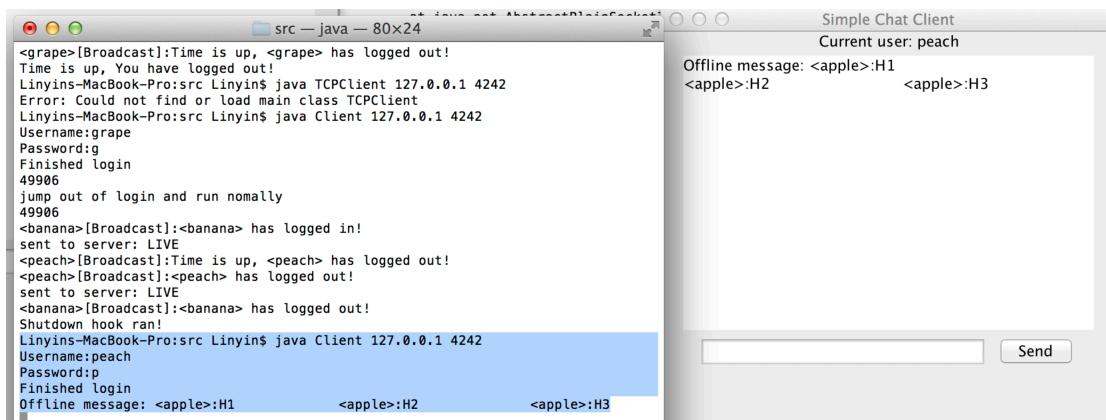
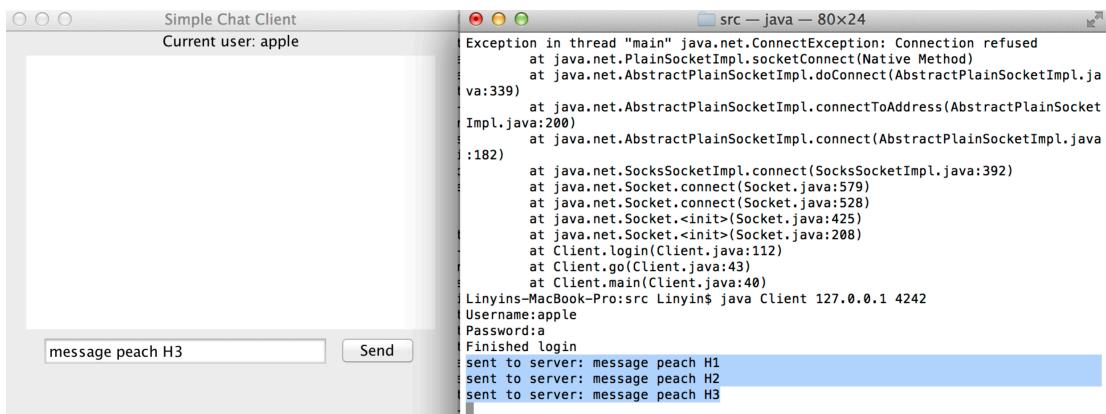


5. Blacklist

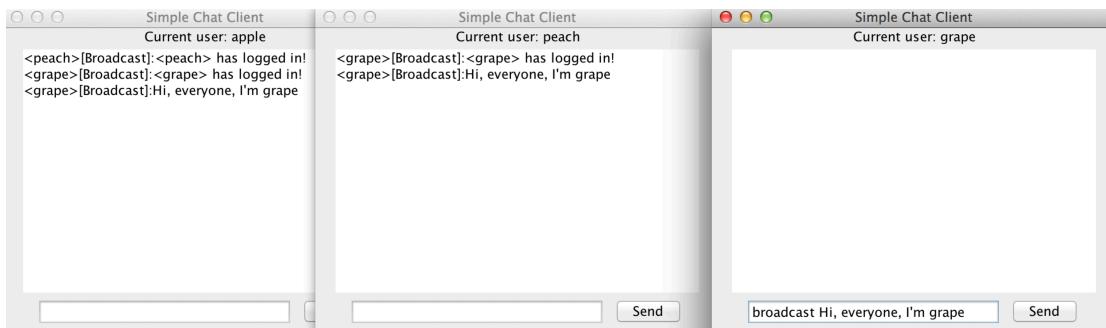




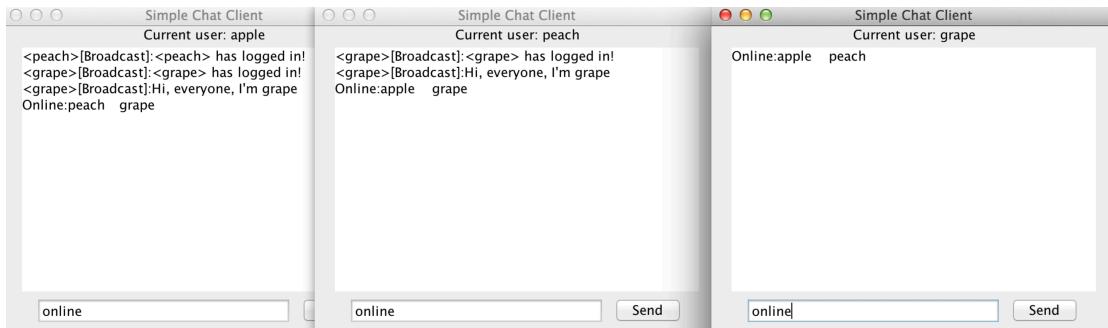
6. Offline messaging



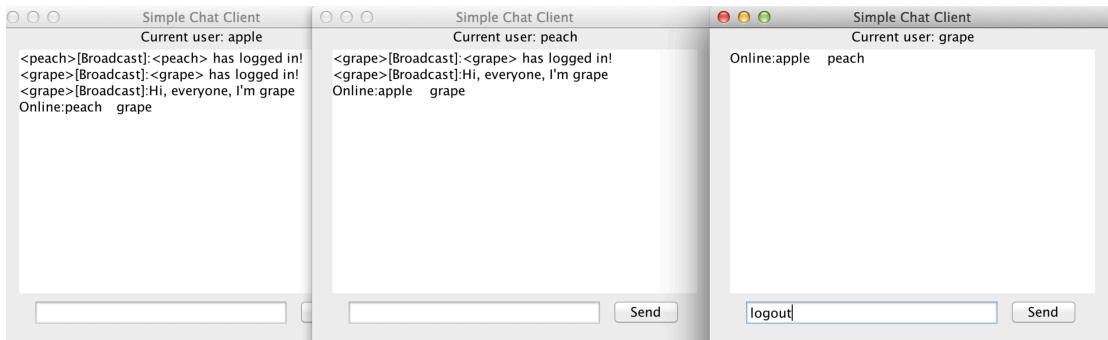
7. Broadcast



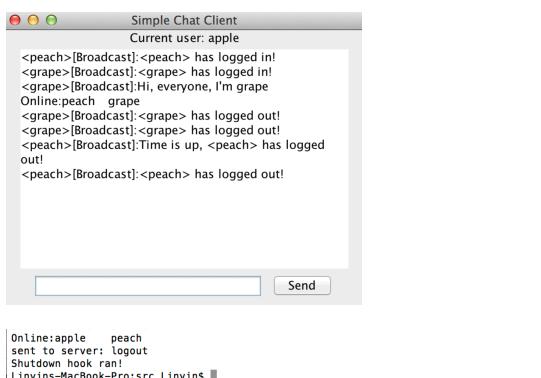
8. Display current users



9. Logout

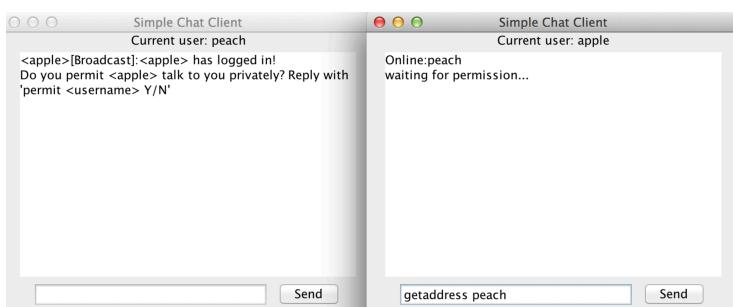


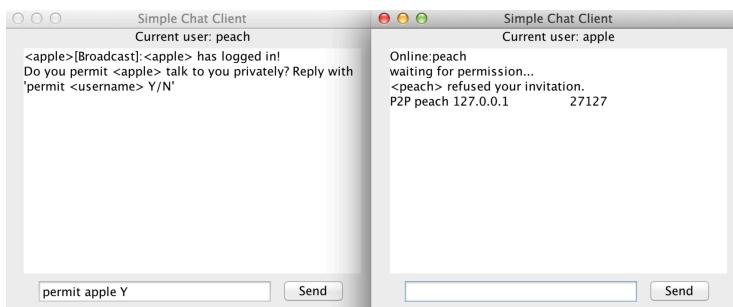
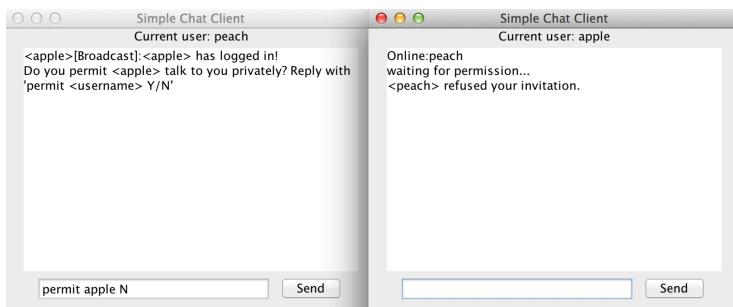
10. Graceful exit using control + c



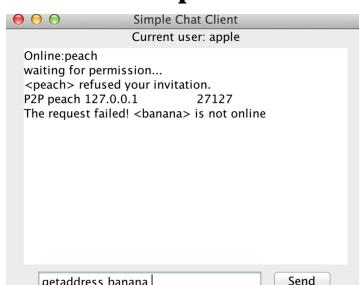
Basic P2P Model

1. Obtain online user's IP address

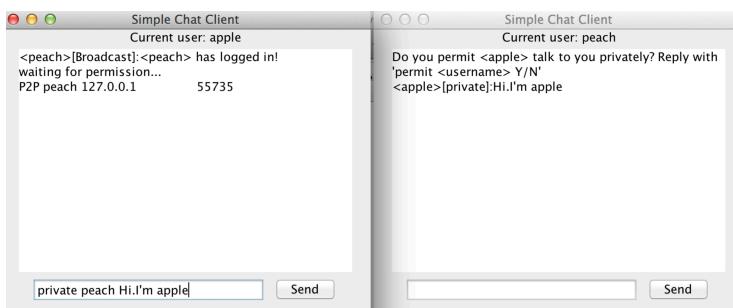
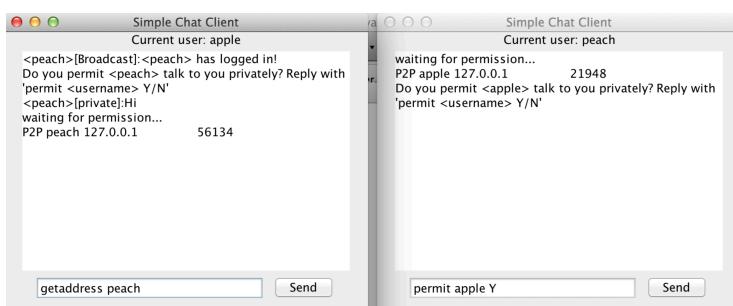




2. Offline report

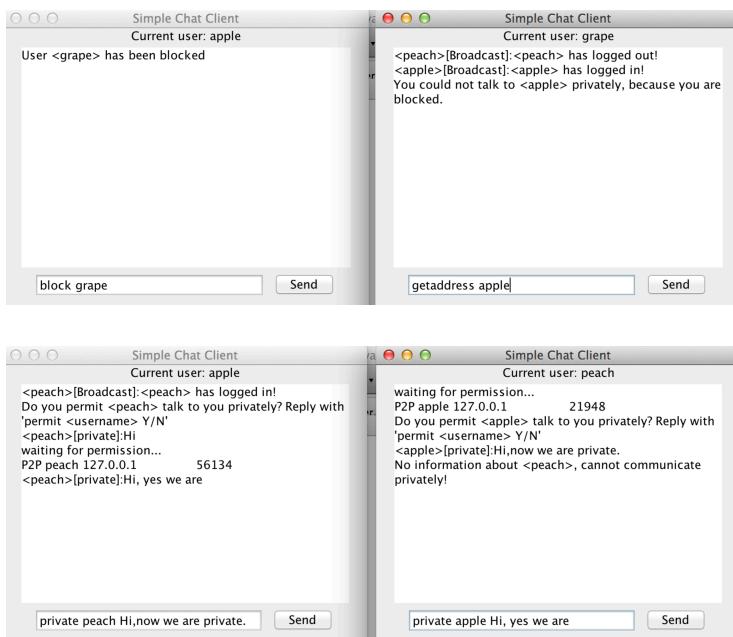


3. P2P message exchange



Bonus

1. Advanced P2P Features OR other personalized features : P2P privacy and consent



2. User Interface