

## 《Java 语言程序设计》开放式大作业报告

大作业题目	网络联机游戏-狼人杀			类型	游戏
班 号	120L0221		学 号	120L022115 120L022109 120L022116 120L022130	
所在院系	基础学部	学 期	2021 年夏季学期	任课教师	于海宁
类型	综合设计型				

### 实验目的：

- 掌握程序设计的基本算法和简单数据结构基础，能够综合运用基本控制语句、算法和数据结构，以及自顶向下、逐步求精的模块化设计方法和面向对象的设计方法，能够设计具有小规模的系统级Java语言程序，提高系统编程能力；
- 针对计算相关的复杂工程问题，能够使用恰当的算法和数据结构，完成计算、统计、排序、检索、匹配等相关的软件系统的构造、测试与实现；
- 能够基于面向对象的思想进行程序的设计与实现；
- 掌握常用的程序调试和测试方法。

### 实验要求：

- 采用自顶向下、逐步求精的模块化设计思想设计一个小型信息库管理系统，或者闯关式游戏程序。
- 要求解释说明采用了什么数据结构和算法，为什么选择这种数据结构或算法，系统实现过程中遇到了哪些问题，这些问题是如何解决的，还有什么问题尚未解决，今后打算从哪几个方面进行改进，本设计的亮点和难点在哪里，实验结果如何，有哪些收获和学习体会；
- 编写程序完成以下大作业内容并完成大作业报告。

### 实验内容：

设计并实现一个网络联机的狼人杀小游戏（有图形化界面），游戏由以下流程组成：

- 1、各玩家进行连接
- 2、进入等候房间，等待房主（作为服务器的主机）开始游戏。
- 3、进行游戏
  - 3.0 抽取胜负
  - 3.1 天黑请闭眼：狼人选择，预言家选择
  - 3.2 狼人完成选择后，判断是否有人死亡（且女巫解药未使用），若有，向女巫询问是否使用解药
  - 3.3 若女巫毒药未使用，向女巫询问是否使用毒药
  - 3.4 判断猎人是否在当局死亡，若死亡，向猎人询问是否发动技能。
  - 3.5 天亮请睁眼：宣布最后死亡情况
  - 3.6 活着的玩家轮流发言
  - 3.7 所有活着的玩家经进行投票
  - 3.8 统计投票结果
  - 3.9 若有人投票出局，判断是否为猎人，若为猎人，询问是否使用技能
  - 3.10 判断是否得出胜负
  - 3.11 若未得出，进行下一轮游戏（步骤 3.1），若得出胜负，结束游戏
- 4、结束游戏，宣布结果，广播玩家存活情况及身份

### 实验环境：

操作系统：Win10

Java 版本：开发版本为 JDK16，经测试 JAVA8 不能直接编译代码，但可运行 jar 包

集成开发环境：Eclipse 及 IntelliJ IDEA

外部库：无

### 输入输出设计：

程序输入的数据：

用户名：String 类型，便于玩家区分自己和其他玩家（若不输入，可自动生成且保证不重复）

IP：String，用于和房主（作为服务器的主机）进行连接

若输入错误的 IP，将会告知用户，服务器未开启

发言字符串：String 类型，用于发言，与其他玩家交流

程序输出的数据：

程序输出的数据都在图形化界面内部展示

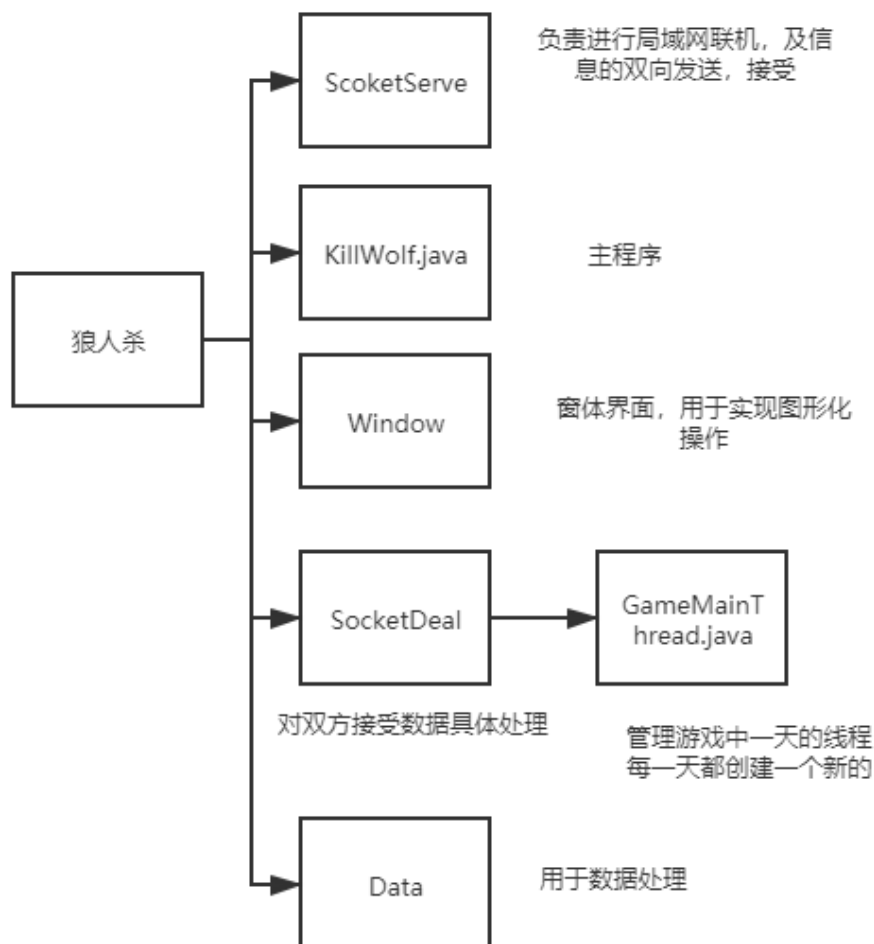
均为 String 型

用户体验：借助 javax.swing 下的类实现了图形化界面，用户只需要进行点击和少量的输入即可

### 系统设计与实现：

#### 1. 系统功能模块划分

对系统进行自顶向下的模块分解，画出系统各个功能模块之间的结构图如下：



#### 2. 类设计

本系统总计设计了36个类，每个类的数据成员和成员函数设计如下所示。

(1) KillWolf类的数据成员和成员函数设计：

序号	数据成员	数据类型	意义说明
1	server	sServer	服务端对象
2	client	sClient	客户端对象
3	freeSpeak	boolean	是否自由发言
4	isServer	boolean	是否为服务器
5	ServerIp	String	服务器 IP
6	Mip	String	用户自己的 IP
7	UserName	String	用户自己的名称
8	Users	DataUser[]	人员数组
9	UsersLen	int	数组占用数
10	UsersRealLen	int	人数
11	loginwindow	LoginWindow	登录房间页面
12	WaitRoom	WaitRoom	等待房间页面
13	GameMain	GameMain	游戏房间页面
14	SelectWindow	SelectWindow	选择页面

序号	成员函数	函数功能	函数参数	函数返回值
1	main	主函数，获取 IP 启动登录页面	String	void
2	goWaitRoom	进入等待房间	无	void
3	goGameMain	进入游戏房间	无	void

(2) serverData类的数据成员和成员函数设计：

序号	数据成员	数据类型	意义说明
1	StartSpeakName	String	第一位发言的用户名
2	nowSpeakUser	String	正在发言的用户名
3	deathUser	String	狼人刀杀用户
4	deathUser2	String	女巫毒药用户
5	deathUser3	String	猎人枪杀用户
6	deathUser4	String	投票出局用户
7	GameMainThread	GameMainThread	当前天的主线程
8	Day	int	游戏天数
9	night	boolean	是否夜晚
10	playMode	boolean	游戏模式
11	freeSpeak	boolean	是否自由发言
12	ServerUsers	DataUser[]	服务端用户
13	UsersLen	int	服务端用户数组占用
14	UsersRealLen	int	服务端用户数量
15	selection	SelectionEvent[]	选择活动数组
16	selectionLen	int	选择活动数组占用

序号	成员函数	函数功能	函数参数	函数返回值
1	getUsersWithID	通过身份获取用户对象	String	DataUser[]
2	ArrayDatatoName	将用户对象数组转换为用户名数组	DataUser[]	String[]
3	getLivingUsers	获取未出局用户对象	boolean	Object[]
4	isAllWolfDied	判断所有狼死亡		boolean
5	isAllPeoDied	判断所有平民死亡		boolean
6	isAllGodDied	判断所有神死亡		boolean
7	whoWin	判断是否胜利		String
8	getUser	通过用户名获取用户	String	DataUser

## (3) DataUser类的数据成员和成员函数设计:

序号	数据成员	数据类型	意义说明
1	sk	Socket	用户端口对象
2	port	int	用户端口号
3	name	String	用户名
4	live	boolean	是否存活
5	identify	String	身份
7	havePoison	boolean	有毒药
8	haveAntidote	boolean	有解药

## (4) SelectCallBack接口的数据成员和成员函数设计:

序号	成员函数	函数功能	函数参数	函数返回值
1	run	处理选择回调	string	void

## (5) SelectionEvent类的数据成员和成员函数设计:

序号	数据成员	数据类型	意义说明
1	Selection	SelectionEvent[]	静态 所有选择活动
2	SelectionLen	int	静态 所有选择活动数量
4	open	boolean	是否正在开启
5	users	String[]	被投票用户
6	count	int[]	计数
7	openusers	String[]	参与用户
8	target	String[]	目标用户
9	timeLimit	int	时间限制
10	cb	SelectionEventCallBack	回调函数
11	server	sServer	服务器

序号	成员函数	函数功能	函数参数	函数返回值
1	SelectionEvent	构造选择活动	String, SelectionEventCallBack	
2	update	更新选择	String	void
3	isFinish	判断是否完成		boolean
4	getResult	获取结果		int
5	closeSelectio	结束	sServer, boolean	boolean
6	openSeletion	开启	sServer, string, boolean, Datauser	void
7	UserQuit	用户退出	String	

(6) ThreadWait类的数据成员和成员函数设计：

序号	数据成员	数据类型	意义说明
1	s	sServer	服务器

序号	成员函数	函数功能	函数参数	函数返回值
1	ThreadWait	构造线程等待	sServer	
2	run	执行线程等待		void

(7) SelectionEventCallBack接口的数据成员和成员函数设计：

序号	成员函数	函数功能	函数参数	函数返回值
1	run	回调函数	String, int	void

(8) ClientDeal类的数据成员和成员函数设计：

序号	成员函数	函数功能	函数参数	函数返回值
1	run	回调函数	String, socket	void

(9) SleepThread类的数据成员和成员函数设计：

序号	数据成员	数据类型	意义说明
1	sss	int	等待时长

序号	成员函数	函数功能	函数参数	函数返回值
1	SleepThread	构造线程等待	string	
2	run	执行线程等待		void

(10) GameMainThread类的数据成员和成员函数设计：

序号	数据成员	数据类型	意义说明
1	YuYancompleted	boolean	预言是否完成
2	Wizardcompleted	boolean	女巫是否完成

序号	成员函数	函数功能	函数参数	函数返回值
1	run	执行		void
2	gameNight	入夜		void

3	gameWizard	女巫选择	string	void
4	gameDay	白天		void

(11) TimeTha类的数据成员和成员函数设计:

序号	成员函数	函数功能	函数参数	函数返回值
1	dayWork	公布结果		void
2	gamevote	投票		void
3	gameHunt	猎人	string	void
4	gameNext	下一步		void
5	gameEnd	结束		void
6	isWin	是否胜利		boolean

(12) ServerDeal类的数据成员和成员函数设计:

序号	成员函数	函数功能	函数参数	函数返回值
1	run	处理回调	String,socket	void
2	nextSpeak	下一个发言	String,int	boolean

(13) SpeakThread类的数据成员和成员函数设计:

序号	数据成员	数据类型	意义说明	取值范围
1	user	String	正在发言的用户	
2	Day	int	天数	

序号	成员函数	函数功能	函数参数	函数返回值
1	SpeakThread	构造线程等待	String,int	
2	run	执行		void

(14) WolfSelect类的数据成员和成员函数设计:

序号	成员函数	函数功能	函数参数	函数返回值
1	run	执行狼人选择	String,int	void

(15) VoteSelection类的数据成员和成员函数设计:

序号	成员函数	函数功能	函数参数	函数返回值
1	run	执行投票选择	String,int	void

(16) GameMain类的数据成员和成员函数设计:

序号	数据成员	数据类型	意义说明
1	freeSpeak	boolean	是否自由发言
2	UserListData	string	存活 JList 数据
3	UserListTipData	string	提示 JList 数据
4	UserOutListData	string	淘汰 JList 数据
5	ClockRun	boolean	是否正在运行 Clock

序号	成员函数	函数功能	函数参数	函数返回值
1	reset	启动		void
3	forbidSubmit	禁用发言		void
4	ableSubmit	启用发言		void

(17) TimeTh 类的数据成员和成员函数设计：

序号	成员函数	函数功能	函数参数	函数返回值
1	startSpeakClock	启用发言时钟		void
2	submit	提交发言		void
3	addToScreen	添加到公屏	String	void
4	setDark	设置窗口风格		void
5	setWhite	设置窗口风格		void
28	getUserListData		String	
29	setUserListData		String	void
30	getUserOutListData		String	
31	setUserOutListData		String	void

(18) ClientDeal 类的数据成员和成员函数设计：

序号	数据成员	数据类型	意义说明
1	ServerButton	JButton	作为服务器按钮
2	LoginButton	JButton	登录按钮
3	userName	JTextField	用户名称输入框
4	ServerIp	JTextField	服务器地址输入框
5	window	JFrame	窗口
6	MIP	String	自己的 ip

序号	成员函数	函数功能	函数参数	函数返回值
1	Reset	重置	string	void

(19) ButtonAction 类的数据成员和成员函数设计：

序号	成员函数	函数功能	函数参数	函数返回值
1	actionPerformed	按钮点击	ActionEvent event	void

(20) LinkAction 类的数据成员和成员函数设计：

序号	成员函数	函数功能	函数参数	函数返回值
1	actionPerformed	按钮点击	ActionEvent event	void
2	createClient	创建客户端	string	void

3	setName	设置名称		boolean
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(21) SelectWindow类的数据成员和成员函数设计:

序号	数据成员	数据类型	意义说明
1	isRunCB	boolean	是否已回调
2	ReceiveID	String	特征值
3	ReceiveFromServer	boolean	是否联网投票
4	DisableParent	boolean	禁用父窗口
5	ParentWindow	JFrame	父窗口
6	window	JFrame	窗口
7	CenterLabel	JLabel	中心标签
8	List	JList String	列表
9	name	String	名称
10	ConfirmButton	JButton	确认按钮
11	CloseButton	JButton	关闭按钮
12	originUsers	String	原始用户
13	usersTip	String	用户提示
14	targetUsers	String	目标用户
15	selectCount	int	选择计数
16	LastSelect	String	最后选择
17	isSendFinal	boolean	是否已发送
18	DarkMode	boolean	窗口风格
19	cb	SelectCallBack	回调函数

序号	成员函数	函数功能	函数参数	函数返回值
1	setColorMode	设置风格	boolean	void
2	start	开始	String,boolean,int	void
3	SelectWindow	构造	String,boolean,JFrame)	

(22) TimeTh类的数据成员和成员函数设计:

序号	成员函数	函数功能	函数参数	函数返回值
1	setTitle	设置标题	string	void
2	SELECTInfo		string	void

(23) ButtonAction类的数据成员和成员函数设计:

序号	成员函数	函数功能	函数参数	函数返回值
1	ButtonAction	按钮点击回调	string	
2	actionPerformed		(ActionEvent)	void
	getSelectionAndClose		String	void

(24) WaitRoom类的数据成员和成员函数设计:

序号	数据成员	数据类型	意义说明
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1	LoginButton	JButton	登录按钮
2	peoCount	JTextField	平民人数
3	wolfCount	JTextField	狼人数
4	wizardOption	JCheckBox	启用女巫
5	hunterOption	JCheckBox	启用猎人
6	yuyanxiaOption	JCheckBox	启用预言家
7	winmodeOption	JCheckBox	启用屠城模式
8	speakOption	JCheckBox	启用自由发言
9	UserList	JList	用户列表
10	window	JFrame	窗口
11	Userlenlabel	JLabel	
12	Charlenlabel	JLabel	
13	CharLen	int	
14	peoLen	int	
15	wolfLen	int	
16	wizardLen	int	
17	hunterLen	int	
18	yuyanxiaLen	int	

序号	成员函数	函数功能	函数参数	函数返回值
1	reset		String,boolean	void
2	setUserCount()		String	void

(25) CheckValueChanged 类的数据成员和成员函数设计：

序号	成员函数	函数功能	函数参数	函数返回值
1	CheckValueChanged		String	
2	itemStateChanged()		ItemEvent	void

(26) TextListener类的数据成员和成员函数设计：

序号	成员函数	函数功能	函数参数	函数返回值
1	TextListener()		String	
2	insertUpdate(DocumentEvent)		DocumentEvent	void
3	removeUpdate(DocumentEvent)		DocumentEvent	void
4	changedUpdate(DocumentEvent)		DocumentEvent	void

(27) CountKeyListener类的数据成员和成员函数设计：

序号	成员函数	函数功能	函数参数	函数返回值
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1	keyTyped		KeyEvent	void
2	keyPressed(KeyEvent)		KeyEvent	void
3	keyReleased()		KeyEvent	void

(30) CallBack接口的数据成员和成员函数设计:

序号	成员函数	函数功能	函数参数	函数返回值
1	run		String, Socket	void

(31) ClientThread类的数据成员和成员函数设计:

序号	数据成员	数据类型	意义说明	取值范围
1	PORT	int		
2	Log	boolean		
3	sk	Socket		
4	cb	CallBack		

序号	成员函数	函数功能	函数参数	函数返回值
1	wlog		string	void
2	close0			boolean
3	send		string	boolean
4	start		String, CallBack)	boolean

(32) sIP类的数据成员和成员函数设计:

序号	数据成员	数据类型	意义说明	取值范围
1	Log	boolean		

序号	成员函数	函数功能	函数参数	函数返回值
1	getIP		string	

(33) GetRealLocalIP类的数据成员和成员函数设计:

序号	成员函数	函数功能	函数参数	函数返回值
1	getRealIP()		string	

(34) sServer类的数据成员和成员函数设计:

序号	数据成员	数据类型	意义说明	取值范围
1	PORT	int		
2	Log	boolean		
3	ss	ServerSocket		
4	users	Socket		
5	usersLen	int		
6	cb	CallBack		

序号	成员函数	函数功能	函数参数	函数返回值
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1	wlog(String)		string	void
2	close			boolean
3	sendto(String		String,socket	boolean
4	send(String)		string	boolean
5	start(CallBack)		CallBack	boolean

(35) ServerThreadAC 类的数据成员和成员函数设计:

序号	数据成员	数据类型	意义说明	取值范围
1	id	int		
2	Log	boolean		

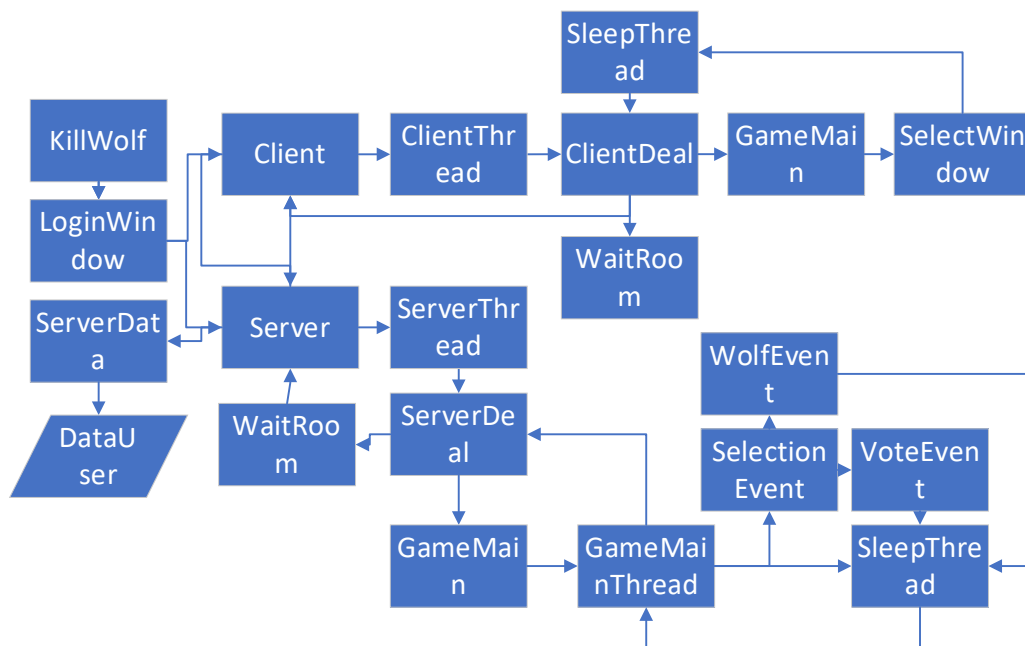
序号	成员函数	函数功能	函数参数	函数返回值
1	run			void

(36) ServerThread类的数据成员和成员函数设计:

序号	数据成员	数据类型	意义说明	取值范围
1	sk	Socket		
2	id	int		
3	Log	boolean		

序号	成员函数	函数功能	函数参数	函数返回值
1	ServerThread		Socket	
2	run			void

类及类之间的关系如图所示:



### 3. 数据结构

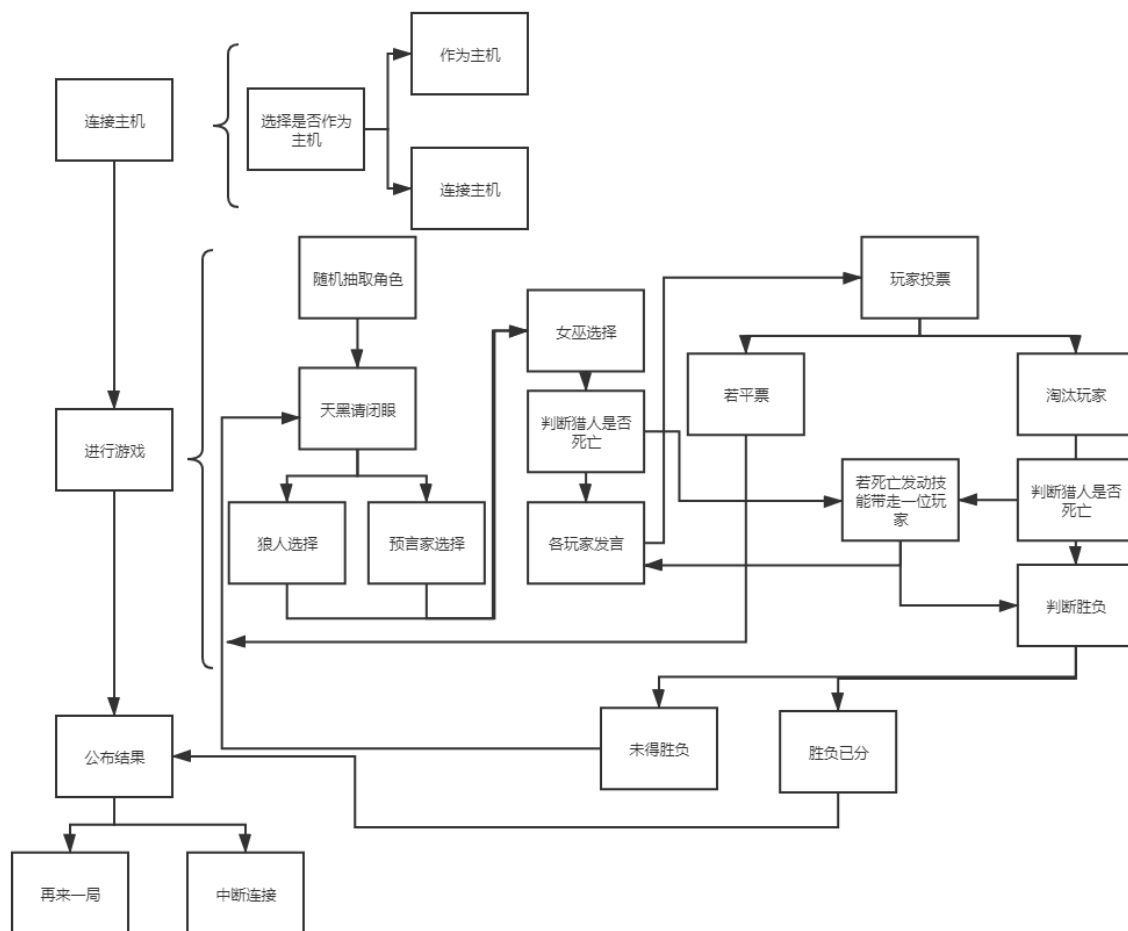
整型数组、对象数组、容器类

### 4. 算法

枚举/递推/迭代/分类统计、排序/查找、递归算法

### 5. 程序流程图

系统总体流程图如下：



#### 实验过程中遇到的问题及解决方法与思路：

问题 1：用户选择过程中主进程阻塞。

原因：主线程 Sleep。

解决方法：启用新线程进行 Sleep，再执行回调。

问题 2：用户淘汰的列表更新。

原因：用户断线、多端数据异步通信、底层数据库和图形页面通信。

解决方法：启用静态变量记录窗口，在用户断线时对所有用户的所有开放窗口进行广播。

问题 3：用户中途退出导致发言顺序出错

原因：记录第一位发言的玩家的 ID 进行轮流发言，直到再次轮到该玩家则结束发言。

解决方法：用户退出则重新开始发言。

问题 4：游戏主体窗口公屏显示问题。

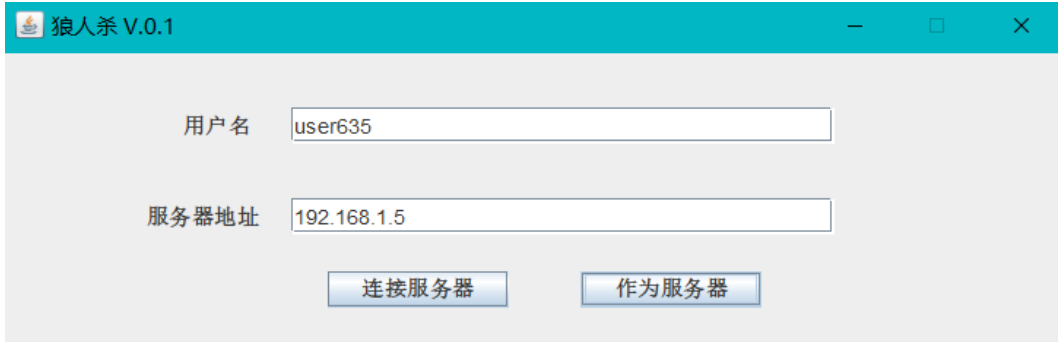
原因：对 swing 中组件使用问题。

解决方法：增加滚动条：增加 JPanel, JScrollPane 并进行设置-设置屏幕显示：

```
screen.setEditable(false);//设置只读
    screen.setLineWrap(true);    //激活自动换行功能
    screen.setWrapStyleWord(true);    // 激活断行不断字功能
```

测试用例和系统测试结果:

测试用例 1:



测试用例 2:



测试用例 3:



狼人杀 Day1

告诉

在场玩家

[1]user7345

[2]user2207

[4]user4039(狼人)

公屏

【系统】天黑请闭眼 - Night1

【系统】狼人请睁眼，请选择你要暗杀的目标

【系统】预言家请睁眼，请选择你要预言的目标

【狼人投票】Night1

【最终结果】存在平票，无人出局(0)

狼人杀 Day1

在场玩家

[1]user7345

[2]user2207

[4]user4039

淘汰玩家

[5]user280 (断线)

[3]user7263 (断线)

公屏

【系统】天黑请闭眼 - Night1

【系统】狼人请睁眼，请选择你要暗杀的目标

【系统】预言家请睁眼，请选择你要预言的目标

【女巫】昨夜无人死亡。

【女巫】你没有使用毒药。

【系统】天亮请睁眼 - Day1

【系统】昨夜无人死亡

【系统】进入轮流发言阶段，每人有30秒发言时间

【系统】轮到[4]user4039发言

【系统】轮到[5]user280发言

【系统】用户 [5]user280 退出房间。

【系统】有用户退出，发言阶段重新开始。

【系统】轮到[1]user7345发言

【系统】轮到[2]user2207发言

【系统】用户 [3]user7263 退出房间。

发言框

发言

程序源代码

```
1 //文件名 KillWolf.java
2 package KillWolf;
3 import java.net.Socket;
4
5 import java.util.Scanner;
6
7 import javax.swing.JFrame;
8
9 import KillWolf.Data.DataUser;
10 import KillWolf.Data.SelectionEvent;
11 import KillWolf.Data.SelectionEventCallBack;
12 import KillWolf.KillWolf.serverData;
13 import KillWolf.SocketDeal.GameMainThread;
14 import KillWolf.Window.GameMain;
15 import KillWolf.Window.LoginWindow;
16 import KillWolf.Window.SelectWindow;
17 import KillWolf.Window.WaitRoom;
18 import SocketServe.*;
19
20
21 public class KillWolf {
22     public class serverData {
23         public static String StartSpeakName = null;
24         //public static int startSpeakUserArrayId;
25         public static String nowSpeakUser;
26         //public static int nowSpeakUserArrayId;
27         public static String deathUser = null; //狼人杀死/女巫解救
28         public static String deathUser2 = null; //女巫毒死 为**NONE**表示无人死亡
29         public static String deathUser3 = null; //猎人杀死
30         public static String deathUser4 = null; //投票出局
31         public static GameMainThread GameMainThread = null;
32         public static int Day = 0;
33         public static boolean night = false;
34         public static boolean playMode = false; //true 表示屠城玩法， false 表示屠边玩法
35         public static boolean freeSpeak = false;
36         public static DataUser ServerUsers[] = new DataUser[50];
37         public static int UsersLen = 0;
38         public static int UsersRealLen = 0;
39         public static SelectionEvent Selection[] = new SelectionEvent[200];
40         public static int SelectionLen = 0;
41         public static DataUser[] getUsersWithID(String identify) {
42             int[] a = new int[ServerUsers.length];
43             int n = 0;
44             for(int i=0;i< UsersLen;i++) {
```



```
45         if(ServerUsers[i] != null)
46             if(ServerUsers[i].identify.equals(identify)) {
47                 a[n] = i;
48                 n++;
49             }
50     }
51     DataUser[] b = new DataUser[n];
52     for(int i=0;i<n;i++) b[i] = ServerUsers[a[i]];
53     return b;
54 }
55 public static String[] ArrayDatatoName(DataUser[] d) {
56     int[] a = new int[d.length];
57     int n = 0;
58     for(int i=0;i<d.length;i++) {
59         if(d[i] != null)
60             if(d[i].live) {
61                 a[n] = i;
62                 n++;
63             }
64     }
65     String[] b = new String[n];
66     for(int i=0;i<n;i++) {
67         b[i] = d[a[i]].name;
68     }
69     return b;
70 }
71 public static Object[] getLivingUsers(boolean onlyName) {
72     int[] a = new int[ServerUsers.length];
73     int n = 0;
74     for(int i=0;i<UsersLen;i++) {
75         if(ServerUsers[i] != null)
76             if(ServerUsers[i].live) {
77                 a[n] = i;
78                 n++;
79             }
80     }
81     String[] b = new String[n];
82     DataUser[] c = new DataUser[n];
83     for(int i=0;i<n;i++) {
84         if(onlyName) b[i] = ServerUsers[a[i]].name;
85         else c[i] = ServerUsers[a[i]];
86         System.out.println("LIVING : "+ServerUsers[a[i]].name);
87     }
88     if(onlyName) return b;
```

```
89         else return c;
90     }
91     public static boolean isAllWolfDied() {
92         DataUser[] b = getUsersWithID("狼人");
93         for(int i=0;i<b.length;i++) if(b[i].live) return false;
94         return true;
95     }
96     public static boolean isAllPeoDied() {
97         DataUser[] b = getUsersWithID("平民");
98         for(int i=0;i<b.length;i++) if(b[i].live) return false;
99         return true;
100    }
101    public static boolean isAllGodDied() {
102        DataUser[] b = getUsersWithID("猎人");
103        for(int i=0;i<b.length;i++) if(b[i].live) return false;
104        b = getUsersWithID("预言家");
105        for(int i=0;i<b.length;i++) if(b[i].live) return false;
106        b = getUsersWithID("女巫");
107        for(int i=0;i<b.length;i++) if(b[i].live) return false;
108        return true;
109    }
110    public static String whoWin() {
111        for (int i=0;i<serverData.UsersLen;i++){
112            if(serverData.ServerUsers[i]!=null){
113                System.out.println(serverData.ServerUsers[i].name+" "+
114+serverData.ServerUsers[i].identify+" "+serverData.ServerUsers[i].live);
115            }
116        }
117        if(playMode) {
118            if(isAllWolfDied()) return "平民";
119            if(isAllPeoDied() && isAllGodDied()) return "狼人";
120            return "无";
121        }else {
122            if(isAllWolfDied()) return "平民";
123            if(isAllPeoDied() || isAllGodDied()) return "狼人";
124            return "无";
125        }
126    }
127    public static DataUser getUser(String name) {
128        for(int i=0;i<UsersLen;i++) {
129            if(ServerUsers[i] != null)
130                if(ServerUsers[i].name.equals(name)) {
131                    return ServerUsers[i];
132                }
133        }
```

```
133         }
134         return null;
135     }
136
137 }
138
139 public static sServer server;
140 public static sClient client;
141 public static boolean freeSpeak = false;
142 public static boolean isServer = false;
143 public static String ServerIp;
144 public static String Mip;
145 public static String UserName;
146 public static DataUser Users[] = new DataUser[50];
147 public static int UsersLen = 0;
148 public static int UsersRealLen = 0;
149 public static LoginWindow loginwindow;
150 public static WaitRoom WaitRoom;
151 public static GameMain GameMain;
152 public static SelectWindow SelectWindow;
153 public static void main(String[] args) {
154     //Scanner sn = new Scanner(System.in);
155     Mip = sIP.getIP();
156
157     loginwindow = new LoginWindow();
158     loginwindow.reset(Mip);
159
160     System.out.println("Server on IP: "+Mip);
161
162 }
163
164
165 public static void goWaitRoom() {
166
167
168     loginwindow.window.setVisible(false);
169     WaitRoom = new WaitRoom();
170     WaitRoom.reset(Mip,UserName,isServer);
171 }
172 public static void goGameMain() {
173     WaitRoom.window.setVisible(false);
174     GameMain = new GameMain();
175     GameMain.reset();
176
```

```
177     }
178 }
179 // CallBack.java
180 package SocketServe;
181 /*
182 *    author: wbx
183 */
184 import java.net.Socket;
185
186 public interface CallBack {
187     public void run(String text,Socket sk);
188 }
189 // sClient.java
190 package SocketServe;
191 /*
192 *    author: wbx
193 */
194 import java.net.*;
195 import java.io.*;
196 import java.util.Scanner;
197
198 public class sClient {
199     public int PORT = 15648;
200     public boolean Log = true;
201     public Socket sk = null;
202     public CallBack cb = null;
203     void wlog(String log) {
204         if(Log) System.out.println(log);
205     }
206     public boolean close() {
207         try {
208             sk.close();
209         } catch (Exception e) {
210             e.printStackTrace();
211             return false;
212         }
213         return true;
214     }
215     public boolean send(String Text)
216     {
217         try{
218             PrintStream ps = new PrintStream(sk.getOutputStream());
219             ps.println(Text);
220             ps.flush();
```

```

221         //if(Text.equals("END")) {
222             //    sk.close();
223         //}else {
224             this.wlog(sk.getLocalPort()+" Client Send: "+Text);
225         //}
226     }
227     catch(Exception e){
228         e.printStackTrace();
229         return false;
230     }
231     return true;
232 }
233 public boolean start(String ServerIp,CallBack cb) //="127.0.0.1")
234 {
235     this.cb = cb;
236     try{
237         sk = new Socket(ServerIp,PORT);
238     }
239     catch(Exception e){
240         e.printStackTrace();
241         return false;
242     }
243     this.wlog("Connecting Server on "+ServerIp+","+PORT);
244     try {
245         ClientThread st = new ClientThread(sk);
246         st.start();
247     }catch(Exception e) {
248         e.printStackTrace();
249         return false;
250     }
251     this.wlog("Server is success connected on "+ServerIp+","+PORT);
252     return true;
253 }
254 // 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99
255 class ClientThread extends Thread
256 {
257     Socket sk;
258     public ClientThread(Socket sk){
259         this.sk= sk;
260     }
261     public void run() {
262         try {
263             Scanner sn = new Scanner(sk.getInputStream());
264             while(true) {

```

```
265         if(sn.hasNextLine()) {
266             String line = sn.nextLine();//br.readLine();
267             //System.out.println(sk.getLocalPort()+" Client Receive: "+line);
268             cb.run(line,sk);
269         }else {
270             try {
271                 sk.sendUrgentData(0);
272             } catch (IOException e) {
273                 System.out.println("Disconnect from Server");
274                 cb.run("Disconnect from Server",sk);
275                 break;
276             }
277
278
279         }
280     }
281 } catch (IOException e1) {
282     e1.printStackTrace();
283 }
284 }
285 }
286 }
287 //sIP.java
288 package SocketServe;
289 /*
290 *    author: wbx
291 */
292 import java.net.*;
293 import java.util.Enumuration;
294
295 public class sIP {
296     public static boolean Log = true;
297     public static String getIP() {获取本机 IP，返回空为失败
298         String MIP = "";
299         try{
300             //InetAddress addr = InetAddress.getLocalHost();
301             //MIP = addr.getHostAddress();
302             //if(Log) System.out.println("本机 IP 地址: "+MIP);
303             //String hostname = addr.getHostName();
304             //if(Log) System.out.println("本机名称: "+hostname);
305             //getAllIpAddress();
306             MIP = GetRealLocalIP.getRealIP();
307             // System.out.println();
308         }catch(Exception e){
```

```
309         e.printStackTrace();
310         return "";
311     }
312     return MIP;
313 }
314 /**
315
316  * 获取本地真正的 IP 地址，即获得有线或者无线 WiFi 地址。
317
318  * 过滤虚拟机、蓝牙等地址
319
320  * @author yins
321
322  * @date 2018 年 8 月 12 日 下午 9:53:58
323
324  */
325
326 public class GetRealLocalIP {
327     /**
328
329     * 获取本地真正的 IP 地址，即获得有线或者无线 WiFi 地址。
330
331     * 过滤虚拟机、蓝牙等地址
332
333     * @author yins
334
335     * @date 2018 年 8 月 12 日下午 9:56:35
336
337     * @return
338
339     */
340
341     public static String getRealIP() {
342         try {
343             Enumeration<NetworkInterface> allNetInterfaces = NetworkInterface.getNetworkInterfaces();
344
345             while (allNetInterfaces.hasMoreElements()) {
346                 NetworkInterface netInterface = (NetworkInterface) allNetInterfaces.nextElement();
347
348                 // 去除回环接口，子接口，未运行和接口
349
350                 if (netInterface.isLoopback() || netInterface.isVirtual() || !netInterface.isUp()) continue;
351                 if (!netInterface.getDisplayName().contains("Intel") &&
352                     !netInterface.getDisplayName().contains("Realtek")) continue;
```

```
353 Enumeration<InetAddress> addresses = netInterface.getInetAddresses();
354 System.out.println(netInterface.getDisplayName());
355
356 while (addresses.hasMoreElements()) {
357     InetAddress ip = addresses.nextElement();
358     if (ip != null) {
359         // ipv4
360
361         if (ip instanceof Inet4Address) {
362             System.out.println("ipv4 = " + ip.getHostAddress());
363
364             return ip.getHostAddress();
365         }
366     }
367 }
368 }
369
370 }
371
372 break;
373
374 }
375
376 } catch (SocketException e) {
377     System.err.println("Error when getting host ip address"
378         + e.getMessage());
379 }
380
381 }
382
383 return null;
384
385 }
386
387 }
388 /*
389
390     * This method is used to get all ip addresses from the network interfaces.
391     * network interfaces: eth0, wlan0, lo, vmnet1, vmnet8
392
393     public static void getAllIpAddress() {
394         try {
395             //get all network interface
396             Enumeration<NetworkInterface> allNetworkInterfaces =
```



```
NetworkInterface.getNetworkInterfaces();
397     NetworkInterface networkInterface = null;
398
399     //check if there are more than one network interface
400     while (allNetworkInterfaces.hasMoreElements()) {
401         //get next network interface
402         networkInterface = allNetworkInterfaces.nextElement();
403         //output interface's name
404         //System.out.println("network interface: " + networkInterface.getDisplayName());
405
406         //get all ip address that bound to this network interface
407         Enumeration<InetAddress> allInetAddress = networkInterface.getInetAddresses();
408
409         InetAddress ipAddress = null;
410
411         //check if there are more than one ip addresses
412         //band to one network interface
413         while (allInetAddress.hasMoreElements()) {
414             //get next ip address
415             ipAddress = allInetAddress.nextElement();
416             if (ipAddress != null && ipAddress instanceof Inet4Address) {
417
418                 System.out.println("ip address: " + ipAddress.getHostAddress());
419             }
420         }
421     }
422
423     } catch (SocketException e) {
424         e.printStackTrace();
425     }
426 } //end method getAllIpAddress*/
427 }
428 //sSever.java
429 package SocketServe;
430 /*
431 *    author: wbx
432 */
433 import java.net.*;
434 import java.io.*;
435 import java.util.Scanner;
436
437 public class sServer {
438     public int PORT = 15648;
439     public boolean Log = true;
```

```
440     public ServerSocket ss = null;
441     public Socket[] users = new Socket[50];
442     public int usersLen = 0;
443     public CallBack cb = null;
444     void wlog(String log) {
445         if(Log) System.out.println(log);
446     }
447     public boolean close() {
448         try {
449             ss.close();
450         } catch (Exception e) {
451             e.printStackTrace();
452             return false;
453         }
454         return true;
455     }
456     public boolean sendto(String Text, Socket sk) {
457         if(sk == null) return false;
458         PrintStream ps;
459         try {
460             ps = new PrintStream(sk.getOutputStream());
461             ps.println(Text);
462             ps.flush();
463             this.wlog("Send to "+sk.getPort()+" : "+Text);
464         } catch (IOException e) {
465             // TODO Auto-generated catch block
466             e.printStackTrace();
467             return false;
468         }
469
470         return true;
471     }
472     public boolean send(String Text) {
473         try {
474             for(int i=0; i<usersLen; i++) {
475                 Socket sk = users[i];
476                 if(sk == null) continue;
477                 PrintStream ps = new PrintStream(sk.getOutputStream());
478                 ps.println(Text);
479                 ps.flush();
480                 this.wlog("Send "+(i+1)+"-"+usersLen+" to "+sk.getPort()+" : "+Text+"#####");
481                 Thread.sleep(10);
482             }
483         }
```

```

484         catch(Exception e){
485             e.printStackTrace();
486             return false;
487         }
488         return true;
489     }
490     public boolean start(CallBack cb) //="127.0.0.1")
491     {
492         this.cb = cb;
493         try {
494             ss = new ServerSocket(PORT);
495             ServerThreadAC st = new ServerThreadAC();
496             st.start();
497         } catch (IOException e) {
498             // TODO Auto-generated catch block
499             e.printStackTrace();
500             return false;
501         }
502         return true;
503     }
504     // 127.0.0.1
505     public class ServerThreadAC extends Thread
506     {
507         //String ServerIp;
508         int id = 0;
509         boolean Log = true;
510         //public ServerThreadAC(String ServerIp){
511         //    this.ServerIp = ServerIp;
512         //}
513         public void run() {
514             try {
515                 if(Log) System.out.println("Server is open on "+PORT);
516                 // while(true){
517                 while(true){
518                     Socket sk = ss.accept();// 127.0.0.1
519                     ServerThread st = new ServerThread(sk);
520                     st.start();
521                 }
522             } catch (Exception e) {
523                 e.printStackTrace();
524             }
525         }
526     }
527     // 127.0.0.1

```

```
528     public class ServerThread extends Thread
529     {
530         Socket sk;
531         int id = 0;
532         boolean Log = true;
533         public ServerThread(Socket sk){
534             this.sk= sk;
535         }
536         public void run() {
537             try {
538                 users[usersLen] = sk;
539                 this.id = usersLen;
540                 usersLen++;
541                 if(Log) System.out.println("New User in "+sk.getPort());
542                 cb.run("New User: "+sk.getPort(),sk);
543                 Scanner sn = new Scanner(sk.getInputStream());
544                 while(true) {
545                     if(sn.hasNextLine()) {
546                         String line = sn.nextLine();//br.readLine();
547                         //System.out.println("Server Receive from "+sk.getPort()+" "+line);
548                         cb.run(line,sk);
549                     } else {
550                         try {
551                             sk.sendUrgentData(0);
552                         } catch (IOException e) {
553                             System.out.println("User "+sk.getPort()+" has disconnected.");
554                             cb.run("User Disconnect "+sk.getPort(),sk);
555                             users[this.id] = null;
556                             break;
557                         }
558                     }
559                 }
560             }
561         }
562         } catch (IOException e1) {
563             e1.printStackTrace();
564         }
565     }
566 }
567 }
568
569 //DataUser.java
570 package KillWolf.Data;
571
```

```
572 import java.net.Socket;
573
574 public class DataUser {
575     public Socket sk;
576     public int port;
577     public String name;
578     public boolean live;
579     public String identify;
580     public boolean hasConfirmID; //被预言家预言了，仅在预言家的客户端可以使用
581     public boolean havePoison = false;
582     public boolean haveAntidote = false;
583 }
584 //SelectCallBack.java
585 package KillWolf.Data;
586
587 public interface SelectCallBack {
588     public void run(String Selection);
589 }
590 // SelectionEvent.java
591 package KillWolf.Data;
592
593 import KillWolf.KillWolf;
594 import SocketServe.sServer;
595
596 public class SelectionEvent {
597     public static SelectionEvent Selection[] = new SelectionEvent[200];
598     public static int SelectionLen = 0;
599     public static void UserQuit(String name) {
600         for(SelectionEvent i : Selection) {
601             if(i!=null) {
602                 if(i.open) {
603                     for(int j=0;j<i.openusers.length;j++) {
604                         if(i.openusers[j].equals(name)) {
605                             if(i.target[j] == null) {
606                                 i.target[j] = "***NONE***";
607                                 i.isFinish();
608                                 break;
609                             }
610                         }
611                     }
612                 }
613             }
614         }
615     }
```

```
616     public boolean open;
617
618     public String[] users; //要选的目标人
619     public int[] count;
620
621     public String[] openusers; //需要选人的人
622     public String[] target;
623
624     public String ReceiveID;
625     public int timeLimit;
626     public SelectionEventCallBack cb;
627     public sServer server;
628     public SelectionEvent(String ReceiveID,String[] users,int timeLimit,SelectionEventCallBack cb) {
629         this.users = new String[users.length];
630         this.count = new int[users.length];
631         this.cb = cb;
632         this.ReceiveID = ReceiveID;
633         this.timeLimit= timeLimit;
634         for(int i=0;i<users.length;i++)
635             if(users[i] != null) this.users[i] = users[i];
636             else this.users[i] = "***NONE***";
637     }
638     public void update(String user,String toUser) {
639         for(int i=0;i<users.length;i++) {
640             if(users[i].equals(user)) {
641                 for( int j=0;j<openusers.length;j++) {
642                     if(openusers[j].equals(user)) {
643                         target[j] = toUser;
644                     }
645                 }
646             }
647             if(users[i].equals(toUser)) count[i]++;
648         }
649         System.out.println("Finish ? " + isFinish());
650     }
651     public boolean isFinish() {
652         System.out.println("##### IS FINISH ? " + target.length);
653         for(String i : target) {
654             if(i == null) {
655                 //System.out.println("#####");
656                 return false;
657             }
658         }
659         closeSelection(this.server,false);
```

```

660         return true;
661     }
662     public int[] getResult() {
663         return count;
664     }
665     public boolean closeSelection(sServer server,boolean run) {
666         //if(run) if(this.cb != null) this.cb.run(ReceiveID, count, users, target);
667         System.out.println("CLOSESELECTION");
668         if(this.open) {
669             this.open = false;
670             for(int i=0;i<openusers.length;i++){
671                 if(openusers[i]!=null){
672                     DataUser user = KillWolf.serverData.getUser(openusers[i]);
673                     if(user!=null)
674                         server.sendto("CLOSESELECTION"+ReceiveID,user.sk);
675                 }
676             }
677             //没选的默认弃权
678             if(this.cb != null) this.cb.run(ReceiveID, count, users, target, openusers);
679         }
680         return true;
681     }
682     public void openSeletion(sServer server,DataUser du[],int RealLen,
683 String WindowTitle,String ButtonTitle,String Tip,boolean isDark) {
684         this.open = true;
685         this.server = server;
686         Selection[SelectionLen] = this;
687         SelectionLen++;
688
689
690
691         String STR = "";
692         for(String i : users) {
693             STR = STR +"\t"+ i;
694         }
695         openusers = new String[RealLen];
696         this.target = new String[RealLen];
697         int j = 0;
698         for(DataUser i : du) {
699             if(i != null) {
700                 openusers[j] = i.name;
701                 server.sendto("OPENSELETION"+timeLimit+"\t\t"+ReceiveID+"\t"+
702 STR+"\t\t"+WindowTitle+"\t\t"+Tip+"\t\t"+ButtonTitle+"\t\t"+ (isDark?"DARK":"LIGHT"),i.sk);
703 //RECEIVEID \t\t user1 \t user2

```

```
704         j++;
705     }
706 }
707 ThreadWait a = new ThreadWait(server);
708 a.start();
709 }
710 public class ThreadWait extends Thread
711 {
712     sServer s;
713     public ThreadWait(sServer server) {
714         s = server;
715     }
716     public void run() {
717         try {
718             Thread.sleep(timeLimit*1000);
719             closeSelection(s,false);
720         } catch (Exception e) {
721             e.printStackTrace();
722         }
723     }
724 }
725 }
726 // SelectionEventCallBack.java
727 package KillWolf.Data;
728
729 public interface SelectionEventCallBack {
730     public void run(String ReceiveID,int[] count,String users[],String target[],String[] openUsers);
731 }
732 // ClientDeal.java
733 package KillWolf.SocketDeal;
734
735 import java.awt.Color;
736 import java.io.IOException;
737 import java.net.Socket;
738
739 import javax.swing.JFrame;
740 import javax.swing.JOptionPane;
741
742 import KillWolf.Data.SelectCallBack;
743 import KillWolf.KillWolf;
744 import KillWolf.Data.DataUser;
745 import KillWolf.Window.GameMain;
746 import KillWolf.Window.SelectWindow;
747 import SocketServe.CallBack;
```



```
748
749 public class ClientDeal implements CallBack {
750     //public SelectWindow SelectWindow;
751     public void run(String text,Socket sk){
752         System.out.println(sk.getLocalPort()+" Client Receive: "+text+"####");
753         if(text.startsWith("ENTERSUCCESS"))
754             {
755                 KillWolf.UserName = text.substring(12);
756                 KillWolf.loginwindow.LoginButton.setEnabled(false);
757                 KillWolf.loginwindow.userName.setEnabled(false);
758                 KillWolf.goWaitRoom();
759             }else if(text.startsWith("ENTERFAIL")){
760                 JOptionPane.showMessageDialog(null, text.substring(9));
761                 /*try {
762                     sk.close();
763                 } catch (IOException e) {
764                     // TODO Auto-generated catch block
765                     e.printStackTrace();
766                 }*/
767             }else if(text.startsWith("NEWWAITUSERLIST")){
768                 String users[] = text.substring(15).split("\t");
769                 //KillWolf.WaitRoom.setList
770                 for(int i=0;i<users.length;i++) {
771                     KillWolf.Users[i]= new DataUser();
772                     KillWolf.Users[i].name = users[i];
773                 }
774                 KillWolf.UsersRealLen = KillWolf.UsersLen = users.length;
775                 //KillWolf.WaitRoom.UserList.setListData(users);
776                 KillWolf.WaitRoom.setUserCount(users);
777
778                 System.out.println(sk.getLocalPort()+" USERS: " + KillWolf.UserName+"\t"
779                                     +KillWolf.UsersRealLen);
780             }else if(text.startsWith("Disconnect from Server")){
781                 if(KillWolf.GameMain != null) {
782                     KillWolf.GameMain.getFrame().setAlwaysOnTop(true);
783                     JOptionPane.showMessageDialog(KillWolf.GameMain.getFrame(),
784                                                     "服务器连接丢失");
785                 }else {
786                     JOptionPane.showMessageDialog(null, "服务器连接丢失");
787                 }
788                 //JOptionPane.setDefaultLocale(null);
789                 System.exit(0);
790             }else if(text.startsWith("USERQUIT")){
791                 String user = text.substring(8),STR = "";
```

```

792         for(int i=0;i<KillWolf.Users.length;i++) {
793             if(KillWolf.Users[i] != null)
794                 if(KillWolf.Users[i].name.equals(user)) {
795                     KillWolf.Users[i] = null;
796                 } else {
797                     STR = STR + "\t" +KillWolf.Users[i].name;
798                 }
799         }
800         String users[] = STR.substring(1).split("\t");
801         //KillWolf.WaitRoom.UserList.setListData();
802         KillWolf.UsersRealLen--;
803         //KillWolf.WaitRoom.settitle("玩家数量: "+ KillWolf.UsersRealLen)//+" 总数: "
804             +KillWolf.UsersLen);
805         KillWolf.WaitRoom.setUserCount(users);
806
807         if(KillWolf.GameMain == null) return;
808
809         int usdi=0,temp=1;
810         for(int i=0;i<KillWolf.GameMain.UserOutListData.length;i++){
811             if(KillWolf.GameMain.UserOutListData[i].startsWith(user+" ")){
812                 temp=0;
813                 KillWolf.GameMain.UserOutListData[i] =
814                     KillWolf.GameMain.UserOutListData[i] + "(断线)";
815                 break;
816             } //else usod[i]=KillWolf.GameMain.UserOutListData[i];
817         }
818
819         String usod[]=new String[KillWolf.GameMain.UserOutListData.length+temp];
820         for(int i=0;i<KillWolf.GameMain.UserOutListData.length;i++){
821             usod[i] = KillWolf.GameMain.UserOutListData[i];
822         }
823
824         if(temp==1){
825             String usda[]=new String[KillWolf.GameMain.UserListData.length-1],
826                 usd[]=new String[KillWolf.GameMain.UserListData.length-1],
827                 usdt[]=new String[KillWolf.GameMain.UserListData.length-1];
828             usod[usod.length-1] = user+" (断线)";
829             for(int i=0;i<KillWolf.GameMain.UserListData.length;i++) {
830                 if(KillWolf.GameMain.UserListData[i].equals(user))
831                 {
832                     usod[usod.length-1] = usod[usod.length-1] +
KillWolf.GameMain.UserListTipData[i];
833                 } else {
834                     usd[usdi]=KillWolf.GameMain.UserListData[i];

```

```

835                usdt[usdi]=KillWolf.GameMain.UserListTipData[i];
836                usda[usdi]=usd[usdi]+usdt[usdi];
837                usdi++;
838            }
839        }
840        KillWolf.GameMain.UserListData = usd;
841        KillWolf.GameMain.UserListTipData = usdt;
842        KillWolf.GameMain.getUserList().setListData(usda);
843    }
844    KillWolf.GameMain.UserOutListData = usod;
845    KillWolf.GameMain.getOutUserList().setListData(usod);
846    KillWolf.GameMain.addToScreen("【系统】用户 "+user+" 退出房间。");
847    //KillWolf.UsersLen = KillWolf.Users.length;
848    }else if(text.startsWith("GAMESTART")) {
849        String[] STR = text.substring(9).split("#u#");
850        DataUser[] du = new DataUser[STR.length];
851        if(STR[0].equals("TRUE")){
852            KillWolf.freeSpeak = true;
853        }else{
854            KillWolf.freeSpeak = false;
855        }
856        for(int i=0;i<STR.length-1;i++) {
857            du[i] = new DataUser();
858            String[] p = STR[i+1].split("\t");
859
860            du[i].name = p[0];
861            du[i].identify = p[1];
862        }
863        KillWolf.Users = du;
864        KillWolf.goGameMain();
865    }else if(text.startsWith("SELECT")) {
866        if(KillWolf.SelectWindow != null) KillWolf.SelectWindow.SELECTInfo(text.substring(6));
867    }else if(text.startsWith("OPENSELETION")) {
868        String a[] = (text.substring(12).split("\t\t")) ;
869        JFrame fra = null;
870        if(KillWolf.GameMain!=null) fra = KillWolf.GameMain.getFrame();
871        KillWolf.SelectWindow = new SelectWindow(a[3],true,a[1],true,fra);
872        if(a[6].equals("DARK"))KillWolf.SelectWindow.setColorMode(true);
873        String[] b = a[2].split("\t");//KillWolf.GameMain.UserListData;
874
875        String myId = KillWolf.GameMain.userSelf.identify;
876        String[] tip = new String[b.length];
877        if(myId.equals("狼人")) {>// myId.equals("预言家")
878            for (int j = 0; j < b.length; j++) {

```

```

879         for (int i = 0; i < KillWolf.UsersLen; i++) {
880             if (KillWolf.Users[i] != null) {
881                 if (KillWolf.Users[i].name.equals(b[j])) {
882                     if(myId.equals("狼人")){
883                         if(KillWolf.Users[i].identify.equals("狼人")){
884                             tip[j] = "("+KillWolf.Users[i].identify+")";
885                         }
886                     }/*else    if(myId.equals("    预    言    家    ")&&
KillWolf.Users[i].hasConfirmID){
887                         {
888                             if(KillWolf.Users[i].identify.equals("狼人")){
889                                 ");";
890                             }
891                         }
892                     }
893                 }*/else{
894                     tip[j] = "";
895                 }
896             }
897         }
898     }
899 }
900 }
901
902     KillWolf.SelectWindow.start(a[4], a[5], b, true,null, Integer.parseInt(a[0]),tip);
903 } else if(text.startsWith("CLOSESELECTION")) {
904     KillWolf.SelectWindow.getSelectionAndClose(text.substring(14));
905 } else if(text.startsWith("MESSAGE")) {
906     if(text.substring(7).startsWith("【系统】天黑请闭眼")){
907         KillWolf.GameMain.setDark();
908         KillWolf.GameMain.getFrame().setTitle("狼人杀 "+text.substring(19));
909         //天黑请闭眼 - Night
910     }
911     if(text.substring(7).startsWith("【系统】天亮请睁眼")){
912         KillWolf.GameMain.getFrame().setTitle("狼人杀 "+text.substring(19));
913         KillWolf.GameMain.setWhite();
914     }
915     KillWolf.GameMain.addToScreen(text.substring(7));
916 } else if(text.startsWith("YUYANJIASTART")){
917     if(!KillWolf.GameMain.userSelf.identify.equals("预言家"))return;
918
919     KillWolf.SelectWindow = new SelectWindow("    预    言    ",false,"    预    言    家
",true,KillWolf.GameMain.getFrame());
920     KillWolf.SelectWindow.setColorMode(true);

```

```

921      //String[] users=new String[]
922      SelectCallBack cb = Selection -> {
923          System.out.println("SelectFinal:" + Selection);
924          //System.out.println("预言: "+st);
925          if(Selection.equals("***NONE**")) {
926              KillWolf.GameMain.addToScreen("【预言】你没有进行预言。");
927              KillWolf.SelectWindow.getSelectionAndClose("预言家");
928              KillWolf.client.send("YUYANEND");
929              return;
930          }
931          String str = "";
932          for(int i=0;i<KillWolf.UsersLen;i++){
933              if(KillWolf.Users[i] == null) continue;
934              if(KillWolf.Users[i].name.equals(Selection)){
935                  for(int j=0;j<KillWolf.GameMain.UserListData.length;j++){
936                      System.out.println("#####List:" +
KillWolf.GameMain.UserListData[j]+"#");
937                      if(KillWolf.GameMain.UserListData[j].equals(Selection)){
938                          str = (KillWolf.Users[i].identify.equals("狼人")?"坏人":"好人");
939                          KillWolf.GameMain.UserListTipData[j] = "(" + str + ")";
940                          str = "预言: "+KillWolf.Users[i].name+"是"+str;
941                          KillWolf.SelectWindow.CenterLabel.setText(str);
942                          KillWolf.SelectWindow.CenterLabel.setForeground(Color.yellow);
943                          break;
944                      }
945                  }
946              }
947          }
948      }
949      String [] usn = KillWolf.GameMain.UserListData;
950      String [] usnt = KillWolf.GameMain.UserListTipData;
951      String [] usna = new String[usn.length];
952      for (int i=0;i<usn.length;i++) {
953          usna[i]=usn[i]+" "+usnt[i];
954      }
955      KillWolf.GameMain.getUserList().setListData(usna);
956      KillWolf.SelectWindow.getSelectionAndClose("预言家");
957      KillWolf.GameMain.addToScreen("【预言】"+str.substring(3));
958      KillWolf.client.send("YUYANEND");
959      //JOptionPane.showMessageDialog(KillWolf.GameMain.getFrame(),str);
960
961      };
962      KillWolf.SelectWindow.start(" 请 选 择 你 要 预 言 的 人 ", " 预 言 ",
KillWolf.GameMain.UserListData,true,cb,20,KillWolf.GameMain.UserListTipData);

```

```

963      SleepThread sth = new SleepThread("预言家");
964      sth.start();
965
966      //System.out.println("预言: "+st);
967      //if(st.equals("***NONE**")) {
968      //      KillWolf.GameMain.addToScreen("【预言】你没有进行预言。");
969      //}
970  }
971  else if(text.startsWith("HUNTERSTART")){
972      if(!KillWolf.GameMain.userSelf.identify.equals("猎人"))return;
973      int res=JOptionPane.showConfirmDialog(KillWolf.GameMain.getFrame(), "你已死亡，是
否使用技能？", "消息", JOptionPane.YES_NO_OPTION);
974      if(res==JOptionPane.YES_OPTION){
975
976          if(text.substring(11).startsWith("LAST"))KillWolf.client.send("HUNTSTARTLASTYES");
977          else KillWolf.client.send("HUNTSTARTYES");
978          System.out.println("选择是后执行的代码");    //点击“是”后执行这个代码块
979      }else{
980          if(text.substring(11).startsWith("LAST"))KillWolf.client.send("HUNTSTARTLASTYES");
981          else KillWolf.client.send("HUNTSTARTNO");
982          System.out.println("选择否后执行的代码");    //点击“否”后执行这个代码块
983          return;
984      }
985  }else if(text.startsWith("HUNTSELECT")){
986      if(!KillWolf.GameMain.userSelf.identify.equals("猎人"))return;
987
988      KillWolf.SelectWindow = new SelectWindow(" 开 枪 ",false," 猎 人 技 能
",true,KillWolf.GameMain.getFrame());
989      KillWolf.SelectWindow.setColorMode(true);
990
991      SelectCallBack cb = Selection -> {
992          System.out.println("SelectFinal:" + Selection);
993          //System.out.println("预言: "+st);
994          if(Selection.equals("***NONE**")) {
995              KillWolf.GameMain.addToScreen("【猎人】你没有开枪。");
996              KillWolf.SelectWindow.getSelectionAndClose("猎人技能");
997
998          if(text.substring(10).startsWith("LAST"))KillWolf.client.send("HUNTSELELASTNO");
999          else KillWolf.client.send("HUNTSELENO");
1000          return;
1001      }
1002      KillWolf.GameMain.addToScreen("【猎人】你对"+Selection+"进行射击。");

```

```

1002                KillWolf.SelectWindow.getSelectionAndClose("猎人技能");
1003
1004                if(text.substring(10).startsWith("LAST"))KillWolf.client.send("HUNTSELELASTYES"+KillWolf.UserName+"\t"+Selection);
1005            else KillWolf.client.send("HUNTSELEYES"+KillWolf.UserName+"\t"+Selection);
1006        };
1007        KillWolf.SelectWindow.start(" 你 要 对 谁 开 枪 ? ", " 开 枪 ",
        KillWolf.GameMain.UserListData,true,cb,20,null);
1008        SleepThread sth = new SleepThread("猎人技能");
1009        sth.start();
1010    }else if(text.equals("FORBIDSPEAK")){
1011        KillWolf.GameMain.forbidSubmit();
1012    }else if(text.equals("ENABLESPEAK")){
1013        KillWolf.GameMain.ableSubmit();
1014    }else if(text.equals("ENABLESPEAKEND")){
1015        KillWolf.freeSpeak = true;
1016        KillWolf.GameMain.ableSubmit();
1017
1018        String usda[]=new String[KillWolf.GameMain.UserListData.length];
1019        for(int i=0;i<KillWolf.GameMain.UserListData.length;i++) {
1020            for(int j=0;j<KillWolf.UsersLen;j++){
1021                if(KillWolf.Users[j]==null)continue;
1022                if(KillWolf.Users[j].name.equals(KillWolf.GameMain.UserListData[i])){
1023                    usda[i]=KillWolf.GameMain.UserListData[i]+"
1024                    ("+KillWolf.Users[j].identify+"");
1025                }
1026            }
1027            KillWolf.GameMain.getUserList().setListData(usda);
1028
1029        }else if(text.equals("ENABLESPEAKAC")){
1030            KillWolf.GameMain.ableSubmit();
1031            KillWolf.GameMain.startSpeakClock();
1032        }else if(text.startsWith("WIZARDSTART")) {
1033            if(!KillWolf.GameMain.userSelf.identify.equals("女巫"))return;
1034            String name = text.substring(11);
1035            if(KillWolf.GameMain.userSelf.haveAntidote) {
1036                if(name.equals("***NONE**")) {
1037                    KillWolf.client.send("WIZARDANTINO");
1038                    return;
1039                }
1040                int res=JOptionPane.showConfirmDialog(KillWolf.GameMain.getFrame(), " 昨 夜
1041                "+name+"死亡，是否使用解药？", "消息", JOptionPane.YES_NO_OPTION);

```

```

1041         if(res==JOptionPane.YES_OPTION){
1042             KillWolf.GameMain.userSelf.haveAntidote = false;
1043             KillWolf.client.send("WIZARDANTIYES");
1044             System.out.println("选择是后执行的代码");    //点击“是”后执行这个代码块
1045         }else{
1046             KillWolf.client.send("WIZARDANTINO");
1047             System.out.println("选择否后执行的代码");    //点击“否”后执行这个代码块
1048             return;
1049         }
1050     }else {
1051         KillWolf.client.send("WIZARDANTINONE");
1052     }
1053 }else if(text.startsWith("WIZARDPOS")) {
1054     if(!KillWolf.GameMain.userSelf.identify.equals("女巫"))return;
1055
1056     KillWolf.SelectWindow = new SelectWindow(" 毒 药 ",false," 女 巫 毒 药
",true,KillWolf.GameMain.getFrame());
1057     KillWolf.SelectWindow.setColorMode(true);
1058     //String[] users=new String[]
1059     SelectCallBack cb = Selection -> {
1060         System.out.println("SelectFinal:" + Selection);
1061         //System.out.println("预言: "+st);
1062         if(Selection.equals("***NONE**")) {
1063             KillWolf.GameMain.addToScreen("【女巫】你没有使用毒药。");
1064             KillWolf.SelectWindow.getSelectionAndClose("女巫毒药");
1065             KillWolf.client.send("WIZARDPOSNO");
1066             return;
1067         }
1068         KillWolf.GameMain.addToScreen("【女巫】你对"+Selection+"使用了毒药。");
1069         KillWolf.SelectWindow.getSelectionAndClose("女巫毒药");
1070         KillWolf.client.send("WIZARDPOSYES"+Selection);
1071         //JOptionPane.showMessageDialog(KillWolf.GameMain.getFrame(),str);
1072     };
1073     KillWolf.SelectWindow.start(" 你 要 对 谁 使 用 毒 药 ? ", " 使 用 ",
KillWolf.GameMain.UserListData,true,cb,20,KillWolf.GameMain.UserListTipData);
1074     SleepThread sth = new SleepThread("女巫毒药");
1075     sth.start();
1076 }else if(text.startsWith("USERDIED")){
1077     String user = text.substring(8),STR = "";
1078     /*for(int i=0;i<KillWolf.Users.length;i++) {
1079         if(KillWolf.Users[i] != null)
1080             if(KillWolf.Users[i].name.equals(user)) {
1081                 KillWolf.Users[i].live = false;
1082             }else {

```



```

1083                //STR = STR + "\t" +KillWolf.Users[i].name;
1084            }
1085        }
1086        String users[] = STR.substring(1).split("\t");
1087        *///KillWolf.WaitRoom.UserList.setListData();
1088        //KillWolf.UsersRealLen--;
1089        //KillWolf.WaitRoom.settitle(" 玩 家 数 量 : " + KillWolf.UsersRealLen)//+" 总 数 :
        "+KillWolf.UsersLen);
1090        //KillWolf.WaitRoom.setUserCount(users);
1091
1092        //if(KillWolf.GameMain == null) return;
1093        int pp=0;
1094        for(;pp<KillWolf.UsersLen;pp++){
1095            if(KillWolf.Users[pp]==null)continue;
1096            if(KillWolf.Users[pp].name.equals(user)){
1097                pp=-1;
1098                break;
1099            }
1100        }
1101        if(pp!=-1) return;
1102
1103        String usda[]=new String[KillWolf.GameMain.UserListData.length-1],
1104                usd[]=new String[KillWolf.GameMain.UserListData.length-1],
1105                usdt[]=new String[KillWolf.GameMain.UserListData.length-1],
1106                usod[]=new String[KillWolf.GameMain.UserOutListData.length+1];
1107        int usdi=0;
1108        for(int i=0;i<KillWolf.GameMain.UserOutListData.length;i++){
1109            usod[i]=KillWolf.GameMain.UserOutListData[i];
1110        }
1111        usod[usod.length-1] = user+" (淘汰)";
1112        if(user.equals(KillWolf.UserName)){
1113            KillWolf.GameMain.getIdentity().setText(KillWolf.UserName+"("+KillWolf.GameMain.userSelf.identify
            +"), 你已被淘汰");
1114        }
1115        for(int i=0;i<KillWolf.GameMain.UserListData.length;i++) {
1116            if(KillWolf.GameMain.UserListData[i].equals(user))
1117            {
1118                usod[usod.length-1]                =                usod[usod.length-1]                +
                KillWolf.GameMain.UserListTipData[i];
1119            }else{
1120                usd[usdi]=KillWolf.GameMain.UserListData[i];
1121                usdt[usdi]=KillWolf.GameMain.UserListTipData[i];
1122                usda[usdi]=usd[usdi]+usdt[usdi];

```

```
1123             usdi++;
1124         }
1125     }
1126
1127     KillWolf.GameMain.UserListData = usd;
1128     KillWolf.GameMain.UserListTipData = usdt;
1129     KillWolf.GameMain.UserOutListData = usod;
1130     KillWolf.GameMain.getUserList().setListData(usda);
1131     KillWolf.GameMain.getOutUserList().setListData(usod);
1132//     System.out.println(text);
1133//     String[] result = text.substring(8).split("\t");
1134//     String[] users = new String[KillWolf.GameMain.UserListData.length- result.length];
1135//                                     String[]     outUsers     =     new
        String[KillWolf.GameMain.UserOutListData.length+result.length];
1136//         for(int j=0;j< result.length;j++){
1137//
1138//             if(result[j].equals(KillWolf.GameMain.userSelf.name))KillWolf.GameMain.userSelf.live=false;
1139//             for(int k=0;k< KillWolf.GameMain.UserListData.length;k++){
1140//                 if(KillWolf.GameMain.UserListData[k].startsWith(result[j])){
1141//                     result[j]=KillWolf.GameMain.UserListData[k];
1142//                     KillWolf.GameMain.UserListData[k]=null;
1143//                 }
1144//             }
1145//         }
1146//         int i=0;
1147//         for (;i<KillWolf.GameMain.UserOutListData.length;i++){
1148//             outUsers[i] = KillWolf.GameMain.UserOutListData[i];
1149//         }
1150//         int j=i;
1151//         for(i<outUsers.length;i++){
1152//             outUsers[i]=result[i-j]+"(淘汰)";
1153//         }
1154//         KillWolf.GameMain.UserOutListData=outUsers;
1155//         KillWolf.GameMain.getOutUserList().setListData(outUsers);
1156//         int i2 = 0;
1157//         for(int i1 = 0;i1< KillWolf.GameMain.UserListData.length;i1++){
1158//             if(KillWolf.GameMain.UserListData[i1]!=null&& !KillWolf.GameMain.UserListData[i1].equals("***NON
        E**")){
1159//                 users[i2++]=KillWolf.GameMain.UserListData[i1];
1160//             }
1161//         }
1162//         KillWolf.GameMain.UserListData = users;
1163//         KillWolf.GameMain.getUserList().setListData(users);
```

```
1163     }
1164
1165
1166
1167         //      +timeLimit+"\t\t"+ReceiveID+"\t"+STR,du[j].sk); //RECEIVEID \t\t user1 \t user2
1168
1169     }
1170
1171 }
1172
1173
1174 class SleepThread extends Thread{
1175     String sss;
1176     public SleepThread(String a) {
1177         this.sss = a;
1178     }
1179     public void run() {
1180         try {
1181             Thread.sleep(20*1000);
1182         } catch (InterruptedException e) {
1183             e.printStackTrace();
1184         }
1185         KillWolf.SelectWindow.getSelectionAndClose(sss);
1186     }
1187 }
1188 // GameMainThread.java
1189 package KillWolf.SocketDeal;
1190
1191 import KillWolf.KillWolf;
1192 import KillWolf.Data.DataUser;
1193 import KillWolf.Data.SelectionEvent;
1194 import KillWolf.Window.GameMain;
1195
1196 public class GameMainThread extends Thread{
1197     public boolean YuYanCompleted = false;
1198     public boolean WizardCompleted = false;
1199     public void run() {
1200         KillWolf.serverData.deathUser = "***NONE***";
1201         KillWolf.serverData.deathUser2 = "***NONE***";
1202         KillWolf.serverData.deathUser3 = "***NONE***";
1203         KillWolf.serverData.deathUser4 = "***NONE***";
1204         gameNight();
1205     }
1206     public void gameNight(){
```

```
1207         if(KillWolf.serverData.GameMainThread.isWin()) return;
1208
1209         KillWolf.serverData.Day++;
1210         KillWolf.serverData.night = true;
1211
1212
1213         KillWolf.server.send("MESSAGE 【系统】天黑请闭眼 - Night"+KillWolf.serverData.Day);
1214         KillWolf.server.send("FORBIDSPEAK");
1215
1216         //KillWolf.server.send("ENABLESPEAK");
1217
1218         String[] allUserName = (String[])KillWolf.serverData.getLivingUsers(true);
1219         //给狼人弹窗
1220         DataUser[] wolfUser0 = KillWolf.serverData.getUsersWithID("狼人");
1221         DataUser[] wolfUser = new DataUser[wolfUser0.length];
1222         int wi = 0;
1223         for(int k=0;k<wolfUser0.length;k++) {
1224             if(wolfUser0[k].live) {
1225                 wolfUser[wi] = wolfUser0[k];
1226                 wi++;
1227             }
1228         }
1229         //String[] wolfUserName = KillWolf.serverData.ArrayDatatoName(wolfUser);
1230
1231         try {
1232             Thread.sleep(2*1000);
1233         } catch (InterruptedException e) {
1234             e.printStackTrace();
1235         }
1236         KillWolf.server.send("MESSAGE 【系统】狼人请睁眼，请选择你要暗杀的目标");
1237         KillWolf.serverData.Selection[KillWolf.serverData.SelectionLen] = new
        SelectionEvent(Integer.toString(KillWolf.serverData.SelectionLen),allUserName,30,new WolfSelect());
1238         KillWolf.serverData.Selection[KillWolf.serverData.SelectionLen].openSeletion(KillWolf.server,
        wolfUser, wi,"狼人出没","暗杀他","请选择你要暗杀的人",true);
1239         KillWolf.serverData.SelectionLen++;
1240         //预言家弹窗
1241         KillWolf.server.send("MESSAGE 【系统】预言家请睁眼，请选择你要预言的目标");
1242         DataUser d[] = KillWolf.serverData.getUsersWithID("预言家");
1243         if (d.length == 1 && d[0].live) {
1244
1245             YuYanCompleted = false;
1246             KillWolf.server.sendto("YUYANJIASTART",d[0].sk);
1247         }else YuYanCompleted = true;
1248
```

```
1249      //女巫弹窗在狼人结束才开始，此处先置为 false
1250      WizardCompleted = false;
1251
1252
1253      //等待预言、女巫完成再进入白天，进入白天自动进行判断是否能进入，在女巫结束还会调
      用一次。
1254      try {
1255          Thread.sleep(20*1000);
1256          YuYanCompleted = true;//等 20 秒，预言一定已经完成了
1257          gameDay();
1258      } catch (InterruptedException e) {
1259          // TODO Auto-generated catch block
1260          e.printStackTrace();
1261      }
1262  }
1263
1264  public void gameWizard(String diedUser) {
1265      DataUser d[] = KillWolf.serverData.getUsersWithID("女巫");
1266      //System.out.println(null.length);
1267      if (d.length == 1 && d[0].live) {
1268          WizardCompleted = false;
1269          KillWolf.server.sendto("WIZARDSTART"+diedUser,d[0].sk);
1270      } else {
1271          if(!diedUser.equals("***NONE***")) {
1272              KillWolf.serverData.getUser(diedUser).live = false;
1273          }
1274          WizardCompleted = true;
1275          KillWolf.serverData.GameMainThread.gameDay();
1276      }
1277  }
1278  boolean isRunGameDay = false;
1279  public void gameDay() {
1280      if(isRunGameDay) return;
1281      if(!YuYanCompleted || !WizardCompleted) return;
1282      //如果都完成了则继续
1283      String death = KillWolf.serverData.deathUser;
1284      String death2 = KillWolf.serverData.deathUser2;
1285      isRunGameDay = true;
1286
1287      KillWolf.server.send("MESSAGE 【系统】 天亮请睁眼 - Day"+KillWolf.serverData.Day);
1288      try {
1289          Thread.sleep(1000);
1290      } catch (InterruptedException e) {
1291          e.printStackTrace();
1292      }
```

```

1292     }
1293     String death3 = KillWolf.serverData.deathUser3;
1294     if(death2.equals("***NONE**") && death.equals("***NONE**")) {
1295         KillWolf.server.send("MESSAGE 【系统】昨夜无人死亡");
1296     }else {
1297         if(!death.equals("***NONE**")){
1298             DataUser u = KillWolf.serverData.getUser(death);
1299             if(u!=null) u.live =false;
1300             KillWolf.server.send("USERDIED"+death);
1301         }
1302         if(!death2.equals("***NONE**")){
1303             DataUser u = KillWolf.serverData.getUser(death2);
1304             if(u!=null) u.live =false;
1305             KillWolf.server.send("USERDIED"+death2);
1306         }
1307         if(!death3.equals("***NONE**")){
1308             DataUser u = KillWolf.serverData.getUser(death3);
1309             if(u!=null) u.live =false;
1310             KillWolf.server.send("USERDIED"+death3);
1311         }
1312
1313         //KillWolf.server.send("USERDIED"+(death.equals("***NONE**")?"":death)+(death2.equals("***NONE**")?"":("t"+death2))+(death3.equals("***NONE**")?"":("t"+death3)));
1314         if(death2.equals("***NONE**"))KillWolf.server.send("MESSAGE 【系统】昨夜
1315         "+(death.equals("***NONE**")?"":death)+(death3.equals("***NONE**")?"":("、"+death3))+ "死亡");
1316         else KillWolf.server.send("MESSAGE 【系统】昨夜
1317         "+(death.equals("***NONE**")?"":death)+(death2.equals("***NONE**")?"":("、"+death2))+(death3.equals("***NONE**")?"":("、"+death3))+ "死亡");
1318     }
1319
1320     if(KillWolf.serverData.GameMainThread.isWin())return;
1321
1322     //判断猎人是否存活，若死亡，向猎人弹窗，使用技能
1323     DataUser user = KillWolf.serverData.getUser(death);
1324     DataUser user2 = KillWolf.serverData.getUser(death2);
1325     if(user == null && user2 == null) dayWork();
1326     else if(user != null && user.identify.equals("猎人")){KillWolf.server.sendto("HUNTERSTART",user.sk);}
1327     else if(user2 != null && user2.identify.equals("猎人")){KillWolf.server.sendto("HUNTERSTART",user2.sk);}
1328     else dayWork();
1329
1330     //向所有玩家弹窗，投票

```

```

1329      //向公屏输出，投票结果，若平票，则再次投票
1330
1331      //再次判断猎人是否存活，若死亡，向猎人弹窗
1332
1333//      }
1334      //KillWolf.server.send("MESSAGE 【系统】 "+whoWin+"胜，将在 5 秒后退出该窗口");
1335      //重置游戏
1336  }
1337  class TimeTha extends Thread{
1338      public void run() {
1339          try {
1340              Thread.sleep(1000*120);
1341              gameVote();
1342          } catch (Exception e) {
1343              e.printStackTrace();
1344          }
1345      }
1346  }
1347  public void dayWork (){
1348      String death = KillWolf.serverData.deathUser;
1349      String death2 = KillWolf.serverData.deathUser2;
1350      //String death3 = KillWolf.serverData.deathUser3;
1351      String firstdeath = "";
1352
1353
1354      //} else if(death2.equals("***NONE***") && !death.equals("***NONE***")){
1355//          //KillWolf.server.send("MESSAGE 【系统】 昨夜"+death+"死亡");
1356//          firstdeath = death;
1357//      } else if(death2.equals("***NONE***") && death.equals("***NONE***")) {
1358//          //KillWolf.server.send("MESSAGE 【系统】 昨夜无人死亡");
1359//      }
1360//      else if(!death2.equals("***NONE***") && !death.equals("***NONE***")){
1361//          firstdeath = death;
1362//          //KillWolf.server.send("MESSAGE 【系统】 昨夜"+death+"、 "+death2+"死亡");
1363//      }
1364      if(!death.equals("***NONE***") ){
1365          firstdeath = death;
1366      } else if(!death2.equals("***NONE***") ){
1367          firstdeath = death2;
1368      }
1369
1370      if(KillWolf.serverData.GameMainThread.isWin())return;
1371      //判断是否获胜
1372

```

```

1373 //玩家轮流发言
1374 if(KillWolf.serverData.freeSpeak){
1375     KillWolf.server.send("MESSAGE 【系统】 现在有 120 秒的交流时间");
1376     KillWolf.server.send("ENABLESPEAKAC");
1377     TimeTha spt = new TimeTha();
1378     spt.start();
1379     return;
1380 }
1381 KillWolf.server.send("MESSAGE 【系统】 进入轮流发言阶段，每人有 30 秒发言时间");
1382 try {
1383     Thread.sleep(2000);
1384 } catch (InterruptedException e) {
1385     e.printStackTrace();
1386 }
1387 DataUser user = null; //(DataUser[]) KillWolf.serverData.getUser(firstdeath);
1388
1389 if(firstdeath.equals("")) for(int j=0;j<KillWolf.serverData.UsersLen;j++){
1390     if(KillWolf.serverData.ServerUsers[j] != null)
1391         if(KillWolf.serverData.ServerUsers[j].live) firstdeath =
KillWolf.serverData.ServerUsers[j].name;
1392 }
1393 for(int i = 0;i<KillWolf.serverData.UsersLen;i++){
1394     if(KillWolf.serverData.ServerUsers[i]==null) continue;
1395
1396     if(firstdeath.equals(KillWolf.serverData.ServerUsers[i].name)){
1397         int j=i+1;
1398         for(;j<KillWolf.serverData.UsersLen;j++){
1399             if(KillWolf.serverData.ServerUsers[j] != null)
1400                 if(KillWolf.serverData.ServerUsers[j].live) user =
KillWolf.serverData.ServerUsers[j];
1401         }
1402         if(user == null) for(j=0;j<i;j++){
1403             if(KillWolf.serverData.ServerUsers[j] != null)
1404                 if(KillWolf.serverData.ServerUsers[j].live) user =
KillWolf.serverData.ServerUsers[j];
1405         }
1406         if(user == null) {
1407             KillWolf.serverData.GameMainThread.gameNext();
1408             System.out.println("ERROR !!!!!!!!!!!!!!!");
1409             return;
1410         }
1411         KillWolf.serverData.StartSpeakName = user.name;
1412         KillWolf.serverData.nowSpeakUser = user.name;
1413         KillWolf.server.send("MESSAGE 【系统】 轮到"+user.name+"发言");

```



```
1414         KillWolf.server.sendto("ENABLESPEAKAC",user.sk);
1415
1416         SpeakThread spt = new SpeakThread(user.name,KillWolf.serverData.Day);
1417         spt.start();
1418         break;
1419     }
1420     //if(i==0)
1421
1422 }
1423 }
1424
1425 public void gameVote() {
1426     KillWolf.server.send("MESSAGE 【系统】发言结束，现在开始进行投票");
1427
1428     //投票弹窗
1429     String[] allUserName = (String[])KillWolf.serverData.getLivingUsers(true);
1430     DataUser[] allUser = (DataUser[]) KillWolf.serverData.getLivingUsers(false);
1431     //String[] wolfUserName = KillWolf.serverData.ArrayDatatoName(wolfUser);
1432
1433     KillWolf.serverData.Selection[KillWolf.serverData.SelectionLen] = new
        SelectionEvent(Integer.toString(KillWolf.serverData.SelectionLen),allUserName,20,new VoteSelection());
1434     KillWolf.serverData.Selection[KillWolf.serverData.SelectionLen].openSeletion(KillWolf.server,
        allUser, allUser.length,"开始投票","投他","请选择",false);
1435     KillWolf.serverData.SelectionLen++;
1436
1437 }
1438 public void gameHunt(String death) {
1439
1440     DataUser user = KillWolf.serverData.getUser(death);
1441     if (user != null && user.identify.equals("猎人")) {
1442         KillWolf.server.sendto("HUNTERSTARTLAST", user.sk);
1443     }
1444 }
1445 public void gameNext(){
1446     if(!isWin()){
1447         (KillWolf.serverData.GameMainThread = new GameMainThread()).start();
1448     }
1449 }
1450 public boolean isWin(){
1451     String whoWin = KillWolf.serverData.whoWin();
1452     if(!(whoWin.equals("无"))){
1453         KillWolf.server.send("MESSAGE 【系统】游戏结束， "+whoWin+"胜");
1454
1455         gameEnd();
```

```
1456         return true;
1457         //KillWolf.server.send("MESSAGE 【系统】 将在 5 秒后关闭窗口");
1458     }
1459     return false;
1460 }
1461 public void gameEnd(){
1462     KillWolf.server.send("MESSAGE 【系统】 游戏统计");
1463     DataUser[] d = KillWolf.serverData.ServerUsers;
1464     for(int i=0;i<KillWolf.serverData.UsersLen;i++){
1465         if(d[i]!=null){
1466             KillWolf.server.send("MESSAGE【系统】"+d[i].name+" "+d[i].identify+" "+(d[i].live?"
存活":"淘汰"));
1467         }
1468     }
1469     KillWolf.serverData.freeSpeak = true;
1470     KillWolf.server.send("ENABLESPEAKEND");
1471
1472 }
1473}
1474// ServerDeal.java
1475package KillWolf.SocketDeal;
1476
1477import java.net.Socket;
1478import java.security.PublicKey;
1479
1480import KillWolf.Data.SelectionEventCallBack;
1481import KillWolf.KillWolf;
1482import KillWolf.Data.DataUser;
1483import KillWolf.Data.SelectionEvent;
1484import KillWolf.KillWolf.serverData;
1485import SocketServe.CallBack;
1486import com.sun.source.tree.ReturnTree;
1487
1488public class ServerDeal implements CallBack {
1489     public void run(String text,Socket sk){
1490         System.out.println(sk.getPort()+" Server Receive: "+text+"#####");
1491         if(text.startsWith("ENTER")){
1492             if(KillWolf.GameMain!=null) {
1493                 KillWolf.server.sendto("ENTERFAIL 游戏已经开始，请稍后再试",sk);
1494                 return;
1495             }
1496             String name = text.substring(5);
1497             for(int i=0;i<KillWolf.serverData.UsersLen;i++) {
1498                 if(KillWolf.serverData.ServerUsers[i]!=null)
```

```

1499         if(name.equals(KillWolf.serverData.ServerUsers[i].name)) {
1500             //System.out.println("NAME: "+name+" "+i);
1501             KillWolf.server.sendto("ENTERFAIL 当前房间存在重名, 请更换用户名后再尝
            试连接。",sk);
1502             return;
1503         }
1504     }
1505
1506     KillWolf.server.sendto("ENTERSUCCESS["+KillWolf.serverData.UsersLen+1+"]"+name,sk);
1507     KillWolf.serverData.ServerUsers[KillWolf.serverData.UsersLen] = new DataUser();
1508     KillWolf.serverData.ServerUsers[KillWolf.serverData.UsersLen].name="["+KillWolf.serverData.UsersLe
n+1+"]"+name;
1509     KillWolf.serverData.ServerUsers[KillWolf.serverData.UsersLen].sk=sk;
1510     KillWolf.serverData.ServerUsers[KillWolf.serverData.UsersLen].port=sk.getPort();
1511     KillWolf.serverData.UsersLen++;
1512     KillWolf.serverData.UsersRealLen++;
1513     String STR = "";
1514     for(int i=0;i<KillWolf.serverData.UsersLen;i++) {
1515         if(KillWolf.serverData.ServerUsers[i]!=null)
1516             STR = STR +'\t'+ KillWolf.serverData.ServerUsers[i].name;
1517     }
1518     KillWolf.server.send("NEWWAITUSERLIST"+STR.substring(1));
1519     return;
1520 }
1521 else if(text.equals("GETUSERS")) {
1522     String STR = "";
1523     for(DataUser i : KillWolf.serverData.ServerUsers) {
1524         if(i!=null)
1525             STR = STR +'\t'+ i.name;
1526     }
1527     KillWolf.server.send(STR.substring(1));
1528     return;
1529 }else if(text.startsWith("User Disconnect ")) {
1530     int port = Integer.parseInt(text.substring(16));
1531     for(int i=0;i<KillWolf.serverData.UsersLen;i++) {
1532         if(KillWolf.serverData.ServerUsers[i]!=null)
1533             if(port == KillWolf.serverData.ServerUsers[i].port) {
1534                 System.out.println("NAME QUIT: "+KillWolf.serverData.ServerUsers[i].name);
1535                 KillWolf.server.send("USERQUIT"+KillWolf.serverData.ServerUsers[i].name);//KillWolf.server.sendto("
ENTERFAIL",sk);
1536                 SelectionEvent.UserQuit(KillWolf.serverData.ServerUsers[i].name);
1537                 KillWolf.serverData.ServerUsers[i] = null;

```

```

1537         KillWolf.serverData.UsersRealLen--;
1538         //添加选择时用户退出
1539         return;
1540     }
1541 }
1542
1543
1544 }else if(text.startsWith("SELECT")) {
1545     KillWolf.server.send(text);
1546 }else if(text.startsWith("FINALSELECT")) {
1547     String s[] = text.substring(11).split("\t");
1548     SelectionEvent se = KillWolf.serverData.Selection[Integer.parseInt(s[0])];
1549     se.update(s[1],s[2]);
1550 }else if(text.startsWith("GAMEREADY")){
1551     serverData.getUser(text.substring(9)).live = true;
1552     for(int i=0;i<serverData.UsersLen;i++){
1553         if(serverData.ServerUsers[i]!=null)
1554             if(!serverData.ServerUsers[i].live) return;
1555     }
1556     KillWolf.server.send("MESSAGE 【系统】 玩家全部进入， 游戏将于 3 秒后开始");
1557     try {
1558         Thread.sleep(3000);
1559     } catch (InterruptedException e) {
1560         e.printStackTrace();
1561     }
1562     KillWolf.serverData.Day = 0;
1563     KillWolf.serverData.night = false;
1564
1565     (KillWolf.serverData.GameMainThread = new GameMainThread()).start();
1566 }else if(text.startsWith("USERSPEAK")){
1567     String[] submitMsg = text.substring(9).split("\t");
1568     KillWolf.server.send("MESSAGE 【玩家】 "+submitMsg[0]+" : "+submitMsg[1]);
1569     if(!KillWolf.serverData.freeSpeak) nextSpeak(submitMsg[0],serverData.Day);
1570
1571 }else if(text.startsWith("YUYANEND")){
1572     KillWolf.serverData.GameMainThread.YuYanCompleted = true;
1573     KillWolf.serverData.GameMainThread.gameDay();
1574 }else if(text.startsWith("WIZARDANTI")) {
1575     String result = text.substring(10);
1576     if(result.equals("YES")) {
1577         DataUser u = KillWolf.serverData.getUser(KillWolf.serverData.deathUser);
1578         if(u!=null) u.live = true;
1579         KillWolf.server.sendto("MESSAGE【女巫】你为"+KillWolf.serverData.deathUser+"使
用了解药。", sk);

```

```

1580         KillWolf.serverData.deathUser = "***NONE***";
1581         KillWolf.serverData.GameMainThread.WizardCompleted = true;
1582         KillWolf.serverData.GameMainThread.gameDay();
1583     }else if(result.equals("NO")){
1584         if(!KillWolf.serverData.deathUser.equals("***NONE***")) {
1585             DataUser u = KillWolf.serverData.getUser(KillWolf.serverData.deathUser);
1586             if(u!=null) u.live = false;
1587             KillWolf.server.sendto("MESSAGE 【 女 巫 】 昨 夜
"+KillWolf.serverData.deathUser+"死亡，你没有使用解药。", sk);
1588         }
1589         else KillWolf.server.sendto("MESSAGE 【女巫】昨夜无人死亡。", sk);
1590         KillWolf.server.sendto("WIZARDPOS", sk);
1591     }else if(result.equals("NONE")){
1592         if(!KillWolf.serverData.deathUser.equals("***NONE***")){
1593             DataUser u = KillWolf.serverData.getUser(KillWolf.serverData.deathUser);
1594             if(u!=null) u.live = false;
1595         }
1596         KillWolf.server.sendto("WIZARDPOS", sk);
1597     }
1598 }else if(text.startsWith("WIZARDPOS")) {
1599     String result = text.substring(9);
1600     KillWolf.serverData.deathUser2 = "***NONE***";
1601     if(result.startsWith("YES")) {
1602         DataUser u = KillWolf.serverData.getUser(result.substring(3));
1603         if(u!=null) u.live = false;
1604         KillWolf.serverData.deathUser2 = result.substring(3);
1605     }else if(result.equals("NO")){
1606
1607     }else if(result.equals("NONE")){
1608
1609     }
1610     KillWolf.serverData.GameMainThread.WizardCompleted = true;
1611     KillWolf.serverData.GameMainThread.gameDay();
1612 }
1613 else if(text.startsWith("HUNTSTART")){
1614     String result = text.substring(9);
1615     if(result.equals("YES")){
1616         KillWolf.server.sendto("HUNTSELECT", sk);
1617     }else if(result.equals("NO")){
1618         KillWolf.server.sendto("MESSAGE 【猎人】你已死亡，没有使用技能。",sk);
1619         KillWolf.serverData.GameMainThread.dayWork();
1620     }else if(result.startsWith("LAST")){
1621         if(result.substring(4).equals("YES")){
1622             KillWolf.server.sendto("HUNTSELECTLAST", sk);

```

```

1623         }else if(result.substring(4).equals("NO")) {
1624             KillWolf.server.sendto("MESSAGE 【猎人】你已死亡，没有使用技能。", sk);
1625             serverData.GameMainThread.gameNext();
1626         } //KillWolf.serverData.GameMainThread.dayWork();
1627     }
1628 }else if(text.startsWith("HUNTSELE")){
1629     //System.out.println("猎人技能成功#####");
1630     String result = text.substring(8);
1631     if(result.startsWith("YES")) {
1632         String[] u = result.substring(3).split("\t");
1633         DataUser us = KillWolf.serverData.getUser(u[1]);
1634         if(us!=null) us.live = false;
1635         KillWolf.serverData.deathUser3 = u[1];
1636         System.out.println("猎人技能成功#####");
1637         KillWolf.server.send("MESSAGE 【猎人】 "+u[0]+" 死前开枪杀死了 "+
serverData.deathUser3);
1638         KillWolf.server.send("USERDIED"+serverData.deathUser3);
1639         KillWolf.serverData.GameMainThread.dayWork();
1640     }
1641     else if(result.equals("NO")){
1642         KillWolf.serverData.GameMainThread.dayWork();
1643     }else if (result.startsWith("LAST")){
1644         result = result.substring(4);
1645         if(result.startsWith("YES")) {
1646             String[] u = result.substring(3).split("\t");
1647             DataUser us = KillWolf.serverData.getUser(u[1]);
1648             if(us!=null) us.live = false;
1649             //KillWolf.serverData.getUser(u[1]).live = false;
1650             KillWolf.serverData.deathUser3 = u[1];
1651             System.out.println("猎人技能成功#####");
1652             KillWolf.server.send("MESSAGE 【猎人】 "+u[0]+" 死前开枪杀死了 "+
serverData.deathUser3);
1653             KillWolf.server.send("USERDIED"+serverData.deathUser3);
1654             //KillWolf.serverData.GameMainThread.dayWork();
1655             try {
1656                 Thread.sleep(2000);
1657             } catch (InterruptedException e) {
1658                 e.printStackTrace();
1659             }
1660         }
1661         else if(result.equals("NO")) {
1662         }
1663         serverData.GameMainThread.gameNext();
1664     }

```

```

1665
1666     }
1667
1668     //KillWolf.server.send("[ "+sk.getPort()+" "+text);
1669 }
1670 public static boolean nextSpeak(String str,int Day){
1671     System.out.println("NOW SPEAK:"+KillWolf.serverData.nowSpeakUser+" CALLBACK:"+str);
1672     if(!KillWolf.serverData.nowSpeakUser.equals(str) || Day != serverData.Day) return false;
1673     else {
1674         DataUser[] liveUsers = (DataUser[]) KillWolf.serverData.getLivingUsers(false);
1675         String lastSpeak = str;
1676         if(serverData.StartSpeakName.equals("***VOTE***")) return true;
1677         for(int i = 0;i<liveUsers.length;i++){
1678             if(lastSpeak.equals(liveUsers[i].name)){
1679                 KillWolf.server.sendto("FORBIDSPEAK",liveUsers[i].sk);
1680
1681                 if(i==liveUsers.length-1) i=-1;
1682                 i=i+1;
1683
1684                 System.out.println("CHANGE SPEAK "+KillWolf.serverData.nowSpeakUser+"
TO "+liveUsers[i].name);
1685                 if(liveUsers[i].name.equals(serverData.StartSpeakName)){
1686                     //一轮发言结束
1687                     serverData.StartSpeakName = "***VOTE***";
1688                     KillWolf.serverData.GameMainThread.gameVote();
1689                     return true;
1690                 }
1691                 KillWolf.serverData.nowSpeakUser = liveUsers[i].name;
1692                 KillWolf.server.send("MESSAGE 【系统】 轮到"+liveUsers[i].name+"发言");
1693                 KillWolf.server.sendto("ENABLESPEAKAC",liveUsers[i].sk);
1694                 SpeakThread spt = new SpeakThread(liveUsers[i].name, serverData.Day);
1695                 spt.start();
1696                 return true;
1697             }
1698             //if(i==0)
1699
1700         }
1701         //找遍了所有人，但还没找到上一个发言人，可能已经退出，从第一个人开始重新发
言。
1702         KillWolf.server.send("MESSAGE 【系统】 有用户退出，发言阶段重新开始。");
1703         for(int j=0;j<KillWolf.serverData.UsersLen;j++){
1704             if(KillWolf.serverData.ServerUsers[j] != null)
1705                 if(KillWolf.serverData.ServerUsers[j].live) {
1706                     serverData.StartSpeakName = KillWolf.serverData.ServerUsers[j].name;

```

```

1707             KillWolf.serverData.nowSpeakUser =
            KillWolf.serverData.ServerUsers[j].name;
1708             KillWolf.server.send("MESSAGE 【 系 统 】 轮 到
            "+KillWolf.serverData.ServerUsers[j].name+"发言");
1709
            KillWolf.server.sendto("ENABLESPEAKAC",KillWolf.serverData.ServerUsers[j].sk);
1710             SpeakThread spt = new
            SpeakThread(KillWolf.serverData.ServerUsers[j].name, serverData.Day);
1711             spt.start();
1712             break;
1713         }
1714     }
1715     return true;
1716 }
1717 }
1718
1719
1720}
1721
1722class SpeakThread extends Thread{
1723     String user;
1724     int Day;
1725     public SpeakThread (String user,int Day){
1726         this.user = user;
1727         this.Day = Day;
1728     }
1729     @Override
1730     public void run() {
1731         try {
1732             Thread.sleep(30*1000);
1733         } catch (InterruptedException e){
1734             e.printStackTrace();
1735         }
1736         ServerDeal.nextSpeak(user,Day);
1737     }
1738
1739
1740}
1741class WolfSelect implements SelectionEventCallBack {
1742     public void run(String ReceiveID,int[] count,String users[],String target[],String[] openusers) {
1743         String name = "***NONE***",sameName = "***NONE***";
1744         int max = 0,samemax = 0;
1745         System.out.println("####狼人投票-----");
1746         String STR = "Night"+KillWolf.serverData.Day;

```



```
1747     for(int i=0;i<users.length;i++){
1748         if(max < count[i]){
1749             max = count[i];
1750             name = users[i];
1751         }else if(max == count[i]) {
1752             sameName = users[i];
1753             samemax = max;
1754         }
1755         System.out.println("#"+users[i]+" "+count[i]);
1756         if(count[i] == 0) continue;
1757         STR = STR + "\n" + "("+count[i]+")"+users[i];
1758         boolean first = true;
1759         for(int j=0;j<target.length;j++) {
1760             if(target[j] != null)
1761                 if(target[j].equals(users[i])) {
1762                     if(first) {
1763                         first = false;
1764                         STR = STR + " <- "+openusers[j];
1765                     }else STR = STR + "、 "+openusers[j];
1766                 }
1767             }
1768         }
1769         System.out.println(name + "-----" + max);
1770 //         KillWolf.serverData.getUser(name).live = false;
1771         String tip = "";
1772         if(name == "***NONE**") {
1773             name = "存在平票，无人出局";
1774             KillWolf.serverData.deathUser="***NONE**";
1775         }else if(samemax == max){
1776             name = "存在平票，无人出局";
1777             KillWolf.serverData.deathUser="***NONE**";
1778         }else {
1779             tip = "被狼人暗杀";
1780             KillWolf.serverData.deathUser=name;
1781             //KillWolf.serverData.getUser(KillWolf.serverData.deathUser).live = false;
1782         }
1783         DataUser[] wu = KillWolf.serverData.getUsersWithID("狼人");
1784         String[] s = STR.split("\n");
1785         for(int i=0;i<wu.length;i++) {
1786             for(int j=0;j<s.length;j++) {
1787                 KillWolf.server.sendto("MESSAGE 【狼人投票】 "+s[j],wu[i].sk);
1788             }
1789             KillWolf.server.sendto("MESSAGE 【最终结果】 "+name+"("+max+")"+tip,wu[i].sk);
1790         }
```

```

1791      KillWolf.serverData.GameMainThread.gameWizard(KillWolf.serverData.deathUser);
1792  }
1793}
1794class VoteSelection implements SelectionEventCallBack {
1795
1796    public void run(String ReceiveID,int[] count,String users[],String target[],String[] openusers) {
1797        String name = "***NONE***",sameName = "***NONE***";
1798        int max = 0,samemax = 0;
1799        System.out.println("####投票-----");
1800        String STR = "投票结束";
1801        for(int i=0;i<users.length;i++){
1802            if(max < count[i]){
1803                max = count[i];
1804                name = users[i];
1805            }else if(max == count[i]) {
1806                sameName = users[i];
1807                samemax = max;
1808            }
1809            System.out.println("#"+users[i]+" "+count[i]);
1810            if(count[i] == 0) continue;
1811            STR = STR + "\n" + "("+count[i]+")"+users[i];
1812            boolean first = true;
1813            for(int j=0;j<target.length;j++) {
1814                if(target[j] != null)
1815                    if(target[j].equals(users[i])) {
1816                        if(first) {
1817                            first = false;
1818                            STR = STR + " <- "+openusers[j];
1819                        } else STR = STR + "、 "+openusers[j];
1820                    }
1821            }
1822        }
1823        System.out.println(name + "-----"+ max);
1824//        KillWolf.serverData.getUser(name).live = false;
1825        String tip = "";
1826        if(name == "***NONE***") {
1827            name = "存在平票，无人出局";
1828            KillWolf.serverData.deathUser4="***NONE***";
1829        }else if(samemax == max){
1830            name = "存在平票，无人出局";
1831            KillWolf.serverData.deathUser4="***NONE***";
1832        }else {
1833            tip = "投票出局";
1834            KillWolf.serverData.deathUser4=name;

```

```

1835         DataUser u =KillWolf.serverData.getUser(KillWolf.serverData.deathUser4);
1836         if(u!=null) u.live = false;
1837     }
1838
1839//         System.out.println("-----"+STR);
1840//         DataUser[] wu = KillWolf.serverData.getUsersWithID("狼人");
1841//DataUser[] wu = new DataUser[users.length];
1842//         if(KillWolf.serverData.getLivingUsers(false) instanceof DataUser[])
1843//             wu = (DataUser[]) KillWolf.serverData.getLivingUsers(false);
1844         String id = "";
1845         //参与本场投票的人
1846         for (int i =0;i<users.length;i++){
1847             //wu[i]=KillWolf.serverData.getUser(users[i]);
1848             if(users[i].equals(name))
1849             {
1850                 DataUser u = KillWolf.serverData.getUser(users[i]);
1851                 if(u!=null) id = u.identify;
1852             }
1853         }
1854         String[] s = STR.split("\n");
1855         //for(int i=0;i<wu.length;i++) {
1856             for(int j=0;j<s.length;j++) {
1857                 KillWolf.server.send("MESSAGE 【投票】 "+s[j]);
1858                 //KillWolf.server.sendto();
1859             }
1860             //if("").equals(id))
1861             //else KillWolf.server.sendto("MESSAGE 【最终结果】 "+name+"("+max+")"+tip+", 他是
            "+id,wu[i].sk);
1862             //}
1863         try {
1864             Thread.sleep(2*1000);
1865         } catch (InterruptedException e) {
1866             e.printStackTrace();
1867         }
1868         KillWolf.server.send("MESSAGE 【最终结果】 "+name+"("+max+")"+tip);
1869         if(!"存在平票，无人出局".equals(name))KillWolf.server.send("USERDIED"+name);
1870
1871         if(serverData.GameMainThread.isWin()) return;
1872
1873         try {
1874             Thread.sleep(2000);
1875         } catch (InterruptedException e) {
1876             e.printStackTrace();
1877         }

```

```
1878         if(id.equals("猎人"))KillWolf.serverData.GameMainThread.gameHunt(name);
1879         else{
1880             serverData.GameMainThread.gameNext();
1881         }
1882
1883     }
1884}
1885// GameMain.java
1886package KillWolf.Window;
1887
1888import KillWolf.Data.DataUser;
1889import KillWolf.KillWolf;
1890
1891import javax.swing.*;
1892import java.awt.*;
1893import java.awt.event.ActionEvent;
1894import java.awt.event.ActionListener;
1895
1896public class GameMain {
1897//     public static void main(String[] args) {
1898//         GameMain game = new GameMain();
1899//         game.reset();
1900//     }
1901    public boolean freeSpeak = false;
1902    private JFrame frame = new JFrame("开始游戏");
1903    private JPanel panel = new JPanel();
1904    //玩家列表
1905    private JLabel userListLabel = new JLabel("在场玩家");
1906    private JList<String> userList = null;
1907    //出局玩家列表
1908    private JLabel outUserListLabel = new JLabel("淘汰玩家");
1909    private JList<String> OutUserList = null;
1910    //
1911    private JLabel identity = null;
1912    //公屏
1913    private JLabel screenStr = new JLabel("公屏");
1914    private JTextArea screen = new JTextArea();
1915    private JScrollPane jsp = null;
1916//    //投票按钮
1917//    private JButton vote = new JButton("投票");
1918    //发言框
1919    private JLabel submitBoxStr = new JLabel("发言框");
1920    private JTextField submitStr = new JTextField();
1921    //发言按钮
```

```
1922     private JButton submit = new JButton("发言");
1923     public String[] UserListData ;
1924     public String[] UserListTipData ;
1925     public String[] UserOutListData ;
1926     public DataUser userSelf=null;
1927     public void reset(){
1928         //本地玩家信息初始化
1929
1930         for(DataUser user : KillWolf.Users){
1931             if(user != null) {
1932                 if (user.identify.equals("女巫")) {
1933                     user.haveAntidote = true;
1934                     user.havePoison = true;
1935                 }
1936                 user.live = true;
1937             }
1938         }
1939         //设置窗体参数
1940         frame.setSize(800,600);
1941         frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
1942         frame.setLayout(null);
1943         frame.setResizable(false);
1944         frame.setVisible(false);
1945         frame.setLocationRelativeTo(null);
1946         //在场玩家列表设置
1947         userListLabel.setBounds(20,5,100,20);
1948         frame.add(userListLabel);
1949         String[] items1=new String[10];
1950         userList=new JList(items1);    //创建 JList
1951         userList.setBounds(10, 30, 200, 240);
1952         userList.setFixedCellHeight(20);
1953         frame.add(userList);
1954         //淘汰玩家列表设置
1955         outUserListLabel.setBounds(20,275,100,20);
1956         frame.add(outUserListLabel);
1957         String[] items2=new String[10];
1958         OutUserList=new JList(items2);    //创建 JList
1959         OutUserList.setBounds(10, 300, 200, 240);
1960         OutUserList.setFixedCellHeight(20);
1961         frame.add(OutUserList);
1962
1963
1964         //顶端字体设置
1965         DataUser[] users= KillWolf.Users;
```

```
1966     String[] usn = new String[KillWolf.UsersRealLen];
1967     String[] usna = new String[KillWolf.UsersRealLen];
1968     String[] usnt = new String[KillWolf.UsersRealLen];
1969     int n = 0;
1970     for (int i=0;i<KillWolf.UsersLen;i++) {
1971         DataUser user = users[i];
1972         if(user == null) continue;
1973         if(user.name.equals(KillWolf.UserName)){
1974             userSelf=user;
1975         }
1976         usn[n]= user.name;
1977         //System.out.println("name:" + user.name);
1978         usna[n]=usn[n];
1979         usnt[n] = "";
1980         n++;
1981     }
1982     n=0;
1983     if(userSelf.identify.equals("狼人")){
1984         for (int i=0;i<KillWolf.UsersLen;i++) {
1985             DataUser user = users[i];
1986             if(user == null) continue;
1987             if(user.identify.equals("狼人")) {
1988                 usnt[n] = "(狼人)";
1989             }
1990             usna[n]=usn[n]+" "+usnt[n];
1991             n++;
1992         }
1993     }
1994     userList.setListData(usna);
1995     UserListData = usn;
1996     UserListTipData = usnt;
1997     UserOutListData = new String[0];
1998
1999     identity = new JLabel(userSelf.name +", 你的身份是: " +userSelf.identify);;
2000     identity.setBounds(270,0,450,100);
2001     identity.setFont(new Font(Font.DIALOG, Font.BOLD, 20));
2002     frame.add(identity);
2003
2004     //公屏设置
2005     panel.setBounds(270,100,450,380);
2006     panel.setLayout(null);
2007     jsp = new JScrollPane(screen);
2008     jsp.setBounds(0,0,450,380);
2009
```

```
2010    screen.setBounds(0,0,450,380);
2011    screen.setFont(new Font(Font.DIALOG,Font.BOLD,16));
2012    screen.setEditable(false);
2013    screen.setLineWrap(true);           //激活自动换行功能
2014    screen.setWrapStyleWord(true);       // 激活断行不断字功能
2015    screenStr.setBounds(270,60,100,50);
2016
2017    jsp.setViewportView(screen);
2018//    screen.setBackground(Color.black);
2019//    jsp.setBackground(Color.BLUE);
2020//    panel.setBackground(Color.green);
2021    //jsp.setOpaque(false);
2022    jsp.setVerticalScrollBarPolicy(JScrollPane.VERTICAL_SCROLLBAR_AS_NEEDED);
2023    panel.add(jsp);
2024    frame.add(panel);
2025    frame.add(screenStr);
2026
2027    submitBoxStr.setBounds(270,470,100,50);
2028    submitStr.setBounds(270,510,300,30);
2029    submitStr.setFont(new Font(Font.DIALOG,Font.BOLD,15));
2030    //submitStr.setText("请发言");
2031    submitStr.setColumns(3);
2032    frame.add(submitBoxStr);
2033    frame.add(submitStr);
2034
2035    submit.setBounds(600,510,120,30);
2036    submit.addActionListener(new ActionListener() {
2037        public void actionPerformed(ActionEvent e) {
2038            submit();
2039        }
2040    });
2041    frame.add(submit);
2042
2043    this.freeSpeak = KillWolf.freeSpeak;
2044    ableSubmit();
2045
2046    frame.setVisible(true);
2047    KillWolf.client.send("GAMEREADY"+KillWolf.UserName);
2048    addToScreen("【系统】等待玩家...");
2049 }
2050 public void forbidSubmit(){
2051     if(freeSpeak)return;
2052     ClockRun = false;
2053     submit.setText("发言");
```

```
2054         this.submit.setEnabled(false);
2055     }
2056     public void ableSubmit() {
2057         //if(freeSpeak)return;
2058         this.submit.setEnabled(true);
2059     }
2060     public boolean ClockRun = false;
2061     class TimeTh extends Thread{
2062         int time;
2063         public TimeTh(int time) {
2064             this.time = time-1;
2065         }
2066         public void run() {
2067             try {
2068                 submit.setText("发言("+time+"s)");
2069                 Thread.sleep(1000);
2070                 while(time>1 && ClockRun) {
2071                     time--;
2072                     submit.setText("发言("+time+"s)");
2073                     Thread.sleep(1000);
2074                 }
2075                 submit.setText("发言");
2076                 forbidSubmit();
2077             }catch(Exception e) {
2078                 e.printStackTrace();
2079             }
2080         }
2081     }
2082 }
2083 public void startSpeakClock(){
2084     if(freeSpeak){
2085         TimeTh tt = new TimeTh(120);
2086         ClockRun = true;
2087         tt.start();
2088         return;
2089     }
2090     TimeTh tt = new TimeTh(30);
2091     ClockRun = true;
2092     tt.start();
2093 }
2094 public void submit(){
2095     System.out.println(submitStr.getText());
2096     if(submitStr != null && (submitStr.getText() != null && !"".equals(submitStr.getText()))){
2097         KillWolf.client.send("USERSPEAK"+userSelf.name+"\t"+submitStr.getText());
```



```
2098         submitStr.setText("");
2099         if(!KillWolf.freeSpeak){
2100             this.submit.setEnabled(false);
2101             ClockRun = false;
2102             submit.setText("发言");
2103         }
2104
2105     }
2106
2107 }
2108 public void addToScreen(String str){
2109     //添加问本到公屏
2110     screen.append(str+"\r\n");
2111     //显示最新内容
2112     screen.setCaretPosition(screen.getText().length());
2113 }
2114 public void setDark(){
2115     Color c = new Color(-12828863);
2116     if(userList != null) {
2117         userList.setBackground(c);
2118         userList.setForeground(Color.white);
2119     }
2120     if(OutUserList != null) {
2121         OutUserList.setBackground(c);
2122         OutUserList.setForeground(Color.white);
2123     }
2124     if(jsp != null){
2125         jsp.setBackground(c);
2126         jsp.setForeground(Color.white);
2127     }
2128     if(screen != null){
2129         screen.setBackground(c);
2130         screen.setForeground(Color.white);
2131     }
2132     if(submitStr != null){
2133         submit.setBackground(c);
2134         submit.setForeground(Color.white);
2135     }
2136     if(userListLabel != null)userListLabel.setForeground(Color.white);
2137     if(outUserListLabel != null)outUserListLabel.setForeground(Color.white);
2138     if(screenStr != null)screenStr.setForeground(Color.white);
2139     if(submitBoxStr != null)submitBoxStr.setForeground(Color.white);
2140     if(identity != null)identity.setForeground(Color.white);
2141     if(frame != null) frame.getContentPane().setBackground(Color.black);
```

```
2142
2143//      if(CenterLabel != null) CenterLabel.setForeground(Color.white);
2144    }
2145    public void setWhite(){
2146        if(userList != null) {
2147            userList.setBackground(Color.white);
2148            userList.setForeground(Color.black);
2149        }
2150        if(OutUserList != null) {
2151            OutUserList.setBackground(Color.white);
2152            OutUserList.setForeground(Color.black);
2153        }
2154        if(screen != null){
2155            screen.setBackground(Color.white);
2156            screen.setForeground(Color.black);
2157        }
2158//      if(jsp != null){
2159//          jsp.setBackground(Color.white);
2160//          jsp.setForeground(Color.black);
2161//      }
2162        if(submitStr != null){
2163            submit.setBackground(Color.white);
2164            submit.setForeground(Color.black);
2165        }
2166        if(userListLabel != null)userListLabel.setForeground(Color.black);
2167        if(outUserListLabel != null)outUserListLabel.setForeground(Color.black);
2168        if(screenStr != null)screenStr.setForeground(Color.black);
2169        if(submitBoxStr != null)submitBoxStr.setForeground(Color.black);
2170        if(identity != null)identity.setForeground(Color.black);
2171        if(frame != null) frame.getContentPane().setBackground(new Color(-1118482));
2172
2173//      if(CenterLabel != null) CenterLabel.setForeground(Color.white);
2174    }
2175
2176    public JFrame getFrame() {
2177        return frame;
2178    }
2179
2180    public void setFrame(JFrame frame) {
2181        this.frame = frame;
2182    }
2183
2184    public JLabel getUserListLabel() {
2185        return userListLabel;
```

```
2186     }
2187
2188     public void setUserListLabel(JLabel userListLabel) {
2189         this.userListLabel = userListLabel;
2190     }
2191
2192     public JList<String> getUserList() {
2193         return userList;
2194     }
2195
2196     public void setUserList(JList<String> userList) {
2197         this.userList = userList;
2198     }
2199
2200     public JLabel getOutUserListLabel() {
2201         return outUserListLabel;
2202     }
2203
2204     public void setOutUserListLabel(JLabel outUserListLabel) {
2205         this.outUserListLabel = outUserListLabel;
2206     }
2207
2208     public JList<String> getOutUserList() {
2209         return OutUserList;
2210     }
2211
2212     public void setOutUserList(JList<String> outUserList) {
2213         OutUserList = outUserList;
2214     }
2215
2216     public JLabel getIdentity() {
2217         return identity;
2218     }
2219
2220     public void setIdentity(JLabel identity) {
2221         this.identity = identity;
2222     }
2223
2224     public JLabel getScreenStr() {
2225         return screenStr;
2226     }
2227
2228     public void setScreenStr(JLabel screenStr) {
2229         this.screenStr = screenStr;
```

```
2230     }
2231
2232     public JTextArea getScreen() {
2233         return screen;
2234     }
2235
2236     public void setScreen(JTextArea screen) {
2237         this.screen = screen;
2238     }
2239
2240     public JLabel getSubmitBoxStr() {
2241         return submitBoxStr;
2242     }
2243
2244     public void setSubmitBoxStr(JLabel submitBoxStr) {
2245         this.submitBoxStr = submitBoxStr;
2246     }
2247
2248     public JTextField getSubmitStr() {
2249         return submitStr;
2250     }
2251
2252     public void setSubmitStr(JTextField submitStr) {
2253         this.submitStr = submitStr;
2254     }
2255
2256     public JButton getSubmit() {
2257         return submit;
2258     }
2259
2260     public void setSubmit(JButton submit) {
2261         this.submit = submit;
2262     }
2263
2264     public String[] getUserListData() {
2265         return UserListData;
2266     }
2267
2268     public void setUserListData(String[] userListData) {
2269         UserListData = userListData;
2270     }
2271
2272     public String[] getUserOutListData() {
2273         return UserOutListData;
```

```
2274     }
2275
2276     public void setUserOutListData(String[] userOutListData) {
2277         UserOutListData = userOutListData;
2278     }
2279 }
2280// LoginWindow.java
2281package KillWolf.Window;
2282
2283import java.awt.event.ActionEvent;
2284import java.awt.event.ActionListener;
2285import java.util.Random;
2286
2287import javax.swing.JButton;
2288import javax.swing.JFrame;
2289import javax.swing.JLabel;
2290import javax.swing.JOptionPane;
2291import javax.swing.JTextField;
2292
2293import KillWolf.KillWolf;
2294import KillWolf.SocketDeal.ClientDeal;
2295import KillWolf.SocketDeal.ServerDeal;
2296import SocketServe.sClient;
2297import SocketServe.sServer;
2298
2299public class LoginWindow {
2300     public JButton ServerButton = null;
2301     public JButton LoginButton = null;
2302     public JTextField userName = null;
2303     public JTextField ServerIp = null;
2304     public JFrame window = null;
2305     public String MIP = null;
2306     public void reset(String ip) {
2307         window = new JFrame("狼人杀 V.0.1");
2308         window.setVisible(false);
2309         window.setSize(600, 200); //设置大小
2310         window.setLocationRelativeTo(null); //设置居中
2311         window.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE); //设置可关闭
2312         window.setLayout(null); //设置绝对布局（窗口里面的内容不会随着窗口的改变而改变）
2313         window.setResizable(false); //设置窗口不可拉伸改变大小
2314         //设置用户名标签
2315         JLabel username_label = new JLabel("用户名");
2316         username_label.setBounds(100, 30, 100, 20);
2317         window.add(username_label);
```

```
2318 //设置文本框
2319 userName = new JTextField();
2320 userName.setBounds(160, 30, 300, 20);
2321 Random r = new Random();
2322 //r.nextInt();
2323 r.setSeed(System.currentTimeMillis());
2324 userName.setText("user"+r.nextInt(10000));
2325 window.add(userName);
2326 //设置标签
2327 JLabel ServerIp_label =new JLabel("服务器地址");
2328 ServerIp_label.setBounds(80,80,100,20);
2329 window.add(ServerIp_label);
2330 //设置文本框
2331 ServerIp = new JTextField();
2332 ServerIp.setBounds(160, 80, 300, 20);
2333 ServerIp.setText(ip);
2334 this.MIP = ip;
2335 window.add(ServerIp);
2336 //JPasswordField pwd=new JPasswordField();//隐藏密码
2337 //pwd.setBounds(150, 200, 300, 50);
2338 //window.add(pwd);
2339 //设置按钮
2340 LoginButton = new JButton("连接服务器");
2341 //Login.setEnabled(false);
2342 LoginButton.setBounds(180, 120, 100, 20);
2343 window.add(LoginButton);
2344 ServerButton = new JButton("作为服务器");
2345 //Login.setEnabled(false);
2346 ServerButton.setBounds(320, 120, 100, 20);
2347 window.add(ServerButton);
2348 //设置作为主机动作
2349 ButtonAction ServerAction = new ButtonAction();
2350 ServerButton.addActionListener(ServerAction);
2351 //设置连接服务器动作
2352 LinkAction LinkAction = new LinkAction();
2353 LoginButton.addActionListener(LinkAction);
2354 window.setVisible(true);//设置面板可见
2355 }
2356 class ButtonAction implements ActionListener{
2357     public void actionPerformed(ActionEvent event){
2358         if(!setName()) return;
2359         ServerIp.setText(MIP);
2360         KillWolf.server = new sServer();
2361         ServerDeal cb = new ServerDeal();
```

```
2362         if(!KillWolf.server.start(cb)){
2363             JOptionPane.showMessageDialog(null, "端口被占用，服务器启动失败！");
2364             return;
2365         }
2366         if(!createClient(MIP)){
2367             JOptionPane.showMessageDialog(null, "客户端启动失败！");
2368             return;
2369         }
2370         //window.setTitle(ServerIp.getText());
2371         KillWolf.ServerIp = MIP;
2372         KillWolf.isServer = true;
2373
2374         ServerIp.setEnabled(false);
2375         ServerButton.setEnabled(false);
2376         KillWolf.client.send("ENTER"+KillWolf.UserName);
2377
2378         //window.setTitle(ServerIp.getText());
2379     }
2380 }
2381 class LinkAction implements ActionListener{
2382     public void actionPerformed(ActionEvent event){
2383         if(!setName()) return;
2384         if(KillWolf.ServerIp == null) {
2385             if(!createClient(ServerIp.getText())){
2386                 JOptionPane.showMessageDialog(null, "客户端启动失败！可能是服务器未连接
成功。");
2387                 return;
2388             }
2389             KillWolf.ServerIp = ServerIp.getText();
2390             KillWolf.isServer = false;
2391         }
2392
2393         ServerIp.setEnabled(false);
2394         ServerButton.setEnabled(false);
2395         KillWolf.client.send("ENTER"+KillWolf.UserName);
2396     }
2397 }
2398 public boolean createClient(String IP) {
2399     KillWolf.client = new sClient();
2400     ClientDeal cb = new ClientDeal();
2401     //System.out.println("Connecting Server on "+IP+"...");
2402     return KillWolf.client.start(IP,cb);
2403 }
2404 public boolean setName() {
```

```

2405         if( userName.getText().equals("")) {
2406             JOptionPane.showMessageDialog(null, "请输入用户名");
2407             return false;
2408         }
2409         KillWolf.UserName = userName.getText();
2410         return true;
2411
2412     }
2413 }
2414// SelectWindow.java
2415package KillWolf.Window;
2416
2417import java.awt.Color;
2418import java.awt.event.ActionEvent;
2419import java.awt.event.ActionListener;
2420
2421import javax.swing.JButton;
2422import javax.swing.JFrame;
2423import javax.swing.JLabel;
2424import javax.swing.JList;
2425import javax.swing.JRootPane;
2426import javax.swing.ListSelectionModel;
2427import javax.swing.event.ListSelectionEvent;
2428import javax.swing.event.ListSelectionListener;
2429
2430import KillWolf.KillWolf;
2431import KillWolf.Data.SelectCallBack;
2432
2433
2434/*
2435    构造类： String name,boolean ReceiveFromServer,String ReceiveID,boolean DisableParent,JFrame
        ParentWindow;
2436    方法： 设置标题（可用于显示剩余时间） setTitle(title)
2437           启动 start(String tip,String ButtonTitle,String[] users, boolean canClose,SelectCallBack cb)
2438           关闭 getSelectionAndClose()
2439    接口： SelectCallBack 实现方法： run(String Selection) 当选择完毕后会回调，如果 Selection 为
        **NONE** 表示没有选择/弃权
2440
2441    for example:
2442        SelectWindow = new SelectWindow("选择",true,"123",true,loginwindow.window);
2443        String[] b = {"a","b","c",UserName};
2444        SelectWindow.start("请选择", "投票", b, true,cb);
2445
2446        cb 另需构造

```



```
2447*/
2448
2449
2450public class SelectWindow {
2451    public boolean isRunCB = false;
2452    public String ReceiveID;
2453    public boolean ReceiveFromServer;
2454    public boolean DisableParent;
2455    public JFrame ParentWindow;
2456    public JFrame window;
2457    public JLabel CenterLabel;
2458    public JList<String> List;
2459    public String name;
2460    public JButton ConfirmButton;
2461    public JButton CloseButton;
2462    public String[] originUsers;
2463    public String[] usersTip;
2464    public String[] targetUsers;
2465    public int[] selectCount;
2466    public String LastSelect = "***NONE***";
2467    public boolean isSendFinal = false;
2468    public SelectWindow(String name,boolean ReceiveFromServer,String ReceiveID,boolean
        DisableParent,JFrame ParentWindow) {
2469        this.ReceiveFromServer = ReceiveFromServer;
2470        this.ReceiveID = ReceiveID;
2471        this.DisableParent = DisableParent;
2472        this.ParentWindow = ParentWindow;
2473        this.name = name;
2474    }
2475    public boolean DarkMode = false;
2476    public SelectCallBack cb;
2477    public void setColorMode(boolean dark) {
2478        this.DarkMode = dark;
2479        if(dark) {
2480            if(List != null) {
2481                List.setBackground(Color.black);
2482                List.setForeground(Color.white);
2483            }
2484            if(window != null) window.getContentPane().setBackground(Color.black);
2485            if(CenterLabel != null) CenterLabel.setForeground(Color.white);
2486            //if()
2487        }
2488    }
2489    public void start(String tip,String ButtonTitle,String[] users, boolean canClose,SelectCallBack cb, int
```

```

        TimeLimit, String[] usertip) {
2490         this.cb = cb;
2491         if(usertip==null) {
2492             usertip = new String[users.length];
2493         }
2494         this.usersTip = usertip;
2495         window = new JFrame(name);
2496         window.setVisible(false);
2497         window.setSize(300, 400);//设置大小
2498         window.setLocationRelativeTo(null);//设置居中
2499         window.setDefaultCloseOperation(JFrame.DO_NOTHING_ON_CLOSE);//设置可关闭
2500         window.setLayout(null);//设置绝对布局（窗口里面的内容不会随着窗口的改变而改变）
2501         window.setResizable(false);//设置窗口不可拉伸改变大小
2502         window.setAlwaysOnTop(true);
2503         window.setUndecorated(true); //不显示标
            题栏,最大化,最小化,退出按钮
2504         window.getRootPane().setWindowDecorationStyle(JRootPane.WARNING_DIALOG);// 使
            frame 只剩下标题栏
2505         CenterLabel =new JLabel(tip);
2506         CenterLabel.setBounds(10,10,260,20);
2507         window.add(CenterLabel);
2508         users = users.clone();
2509         originUsers = new String[users.length];
2510         targetUsers = new String[users.length];
2511         for(int i=0;i<users.length;i++) {
2512             originUsers[i] = users[i];
2513             targetUsers[i] = "";
2514             if(usersTip[i]==null) usersTip[i]="";
2515             if(ReceiveFromServer) users[i] = "(0)+"users[i]+" "+usersTip[i];
2516             else users[i] = users[i]+" "+usersTip[i];
2517         }
2518         selectCount = new int[users.length];
2519         List = new JList(users); //创建 JList
2520         List.setBounds(10, 40, 260, 260);
2521         List.setFixedCellHeight(20);
2522         List.addListSelectionListener(new ListSelectionHandler());
2523         List.setSelectionMode(ListSelectionModel.SINGLE_SELECTION);
2524         window.add(List);
2525
2526
2527         ConfirmButton = new JButton(ButtonTitle);
2528         ConfirmButton.setEnabled(false);
2529         ConfirmButton.setBounds(30, 310, 100, 40);
2530         ConfirmButton.addActionListener(new ButtonAction("confirm"));

```

```
2531     window.add(ConfirmButton);
2532
2533
2534     CloseButton = new JButton("弃权");
2535     if(canClose) {
2536         CloseButton.setEnabled(true);
2537     }else {
2538         CloseButton.setEnabled(false);
2539     }
2540     CloseButton.setBounds(160, 310, 100, 40);
2541     CloseButton.addActionListener(new ButtonAction("cancel"));
2542     window.add(CloseButton);
2543
2544
2545     if(this.DisableParent && this.ParentWindow != null) this.ParentWindow.setEnabled(false);
2546
2547     TimeTh at = new TimeTh(TimeLimit);
2548     at.start();
2549
2550     setColorMode(this.DarkMode);
2551
2552     window.setVisible(true);
2553 }
2554 class TimeTh extends Thread{
2555     int time;
2556     public TimeTh(int time) {
2557         this.time = time-1;
2558     }
2559     public void run() {
2560         try {
2561             window.setTitle(time+"s "+name);
2562             while(time>0) {
2563                 Thread.sleep(1000);
2564                 time--;
2565                 window.setTitle(time+"s "+name);
2566             }
2567             window.setTitle(name);
2568             ConfirmButton.setEnabled(false);
2569             CloseButton.setEnabled(false);
2570         }catch(Exception e) {
2571             e.printStackTrace();
2572         }
2573     }
2574 }
```

```
2575     public void setTitle(String Title) {
2576         window.setTitle(name + Title);
2577     }
2578     public void SELECTInfo(String ServerText) {
2579         if(!ReceiveFromServer) return;
2580         String[] c = ServerText.split("\t");
2581         // c[0] ReceiveID ,c[1] 发出者 ,c[2] 目标者, c[3] 原始目标 (被取消)
2582         String[] nu = new String[this.originUsers.length];
2583
2584         if(c[0].equals(this.ReceiveID)) {
2585
2586             for(int i=0;i<this.originUsers.length;i++) {
2587                 //nu[i] = this.originUsers[i];
2588
2589                 if(this.originUsers[i].equals(c[1])) {
2590                     if(c[2].equals("***NONE**")) targetUsers[i] = " 弃权";
2591                     else targetUsers[i] = " -> " + c[2];
2592                 }
2593                 if(this.originUsers[i].equals(c[2])) {
2594                     selectCount[i]++;
2595                     System.out.println(this.originUsers[i]+" +1 => "+ selectCount[i]);
2596                 }
2597                 if(this.originUsers[i].equals(c[3])) {
2598                     selectCount[i]--;
2599                     System.out.println(this.originUsers[i]+" -1 => "+ selectCount[i]);
2600                 }
2601                 System.out.println(this.originUsers[i]+" "+c[2]+" "+ selectCount[i]);
2602                 //System.out.println("LIST0: "+nu[i]);
2603                 //System.out.println("LISTc: "+selectCount[i]);
2604             }
2605             for(int i=0;i<nu.length;i++) {
2606                 nu[i] = "(" +selectCount[i] + ")" +originUsers[i]+" "+usersTip[i]+ targetUsers[i];
2607                 //System.out.println("LIST: "+nu[i]);
2608             }
2609             List.setListData(nu);
2610         }
2611     }
2612 }
2613 class ListSelectionHandler implements ListSelectionListener {
2614     public void valueChanged(ListSelectionEvent e) {
2615         if(e.getValueIsAdjusting()) {
2616             String t;
2617             if(List.getSelectedIndex() == -1) {
2618                 //t = "***NONE**";
```

```
2619         return;
2620     }
2621     else t = originUsers[List.getSelectedIndex()];
2622     System.out.printf("Select: %s\n",t);
2623     ConfirmButton.setEnabled(true);
2624
2625     String a = LastSelect;
2626     if(List.getSelectedIndex() == -1)
2627         LastSelect = "***NONE**";
2628     else LastSelect = originUsers[List.getSelectedIndex()];
2629
2630     if(ReceiveFromServer)
2631         KillWolf.client.send("SELECT"+ReceiveID+"\t"+KillWolf.UserName+"\t"+t+"\t"+a);
2632
2633     //output.append("LeadSelectionIndex is " + lsm.getLeadSelectionIndex() + "\n");
2634
2635
2636     }
2637 }
2638 class ButtonAction implements ActionListener{//开始游戏
2639     String ID;
2640     public ButtonAction(String ID) {
2641         this.ID = ID;
2642     }
2643     public void actionPerformed(ActionEvent event){
2644         isSendFinal = true;
2645         List.setEnabled(false);
2646         CloseButton.setEnabled(false);
2647         ConfirmButton.setEnabled(false);
2648         isRunCB = true;
2649         if(ID.equals("confirm")) {
2650             //List.setEnabled(false);
2651             if(ReceiveFromServer) {
2652                 KillWolf.client.send("FINALSELECT"+ReceiveID+"\t"+KillWolf.UserName+"\t"+LastSelect);
2653             }
2654             if(cb != null) cb.run(LastSelect);
2655         }else {
2656             //取消
2657             if(ReceiveFromServer) {
2658                 KillWolf.client.send("SELECT"+ReceiveID+"\t"+KillWolf.UserName+"\t"+"***NONE**"+"\t"+LastSelect);
2659             }
2660         }
2661     }
2662 }
```

```
2659      KillWolf.client.send("FINALSELECT"+ReceiveID+"\t"+KillWolf.UserName+"\t"+"**NONE**");
2660          }
2661          if(cb != null) cb.run("**NONE**");
2662      }
2663
2664
2665
2666      }
2667  }
2668  public String getSelectionAndClose(String ReceiveID) {
2669      if(!ReceiveID.equals(this.ReceiveID)) return "";
2670      boolean a = isRunCB;
2671      isRunCB = true;
2672      window.setVisible(false);
2673      window.setEnabled(false);
2674      if(!a && cb != null) {
2675          cb.run(LastSelect);
2676      }
2677      if(!isSendFinal && ReceiveFromServer){
2678          isSendFinal = true;
2679
2680      KillWolf.client.send("FINALSELECT"+ReceiveID+"\t"+KillWolf.UserName+"\t"+LastSelect);
2681      }
2682      if(DisableParent && ParentWindow != null) ParentWindow.setEnabled(true);
2683
2684      return LastSelect;
2685  }
2686// WaitRoom.java
2687package KillWolf.Window;
2688
2689import javax.swing.*.*;
2690import javax.swing.border.Border;
2691import javax.swing.event.*;
2692import javax.swing.text.BadLocationException;
2693import javax.swing.text.Document;
2694
2695import KillWolf.KillWolf;
2696import KillWolf.Data.DataUser;
2697import KillWolf.SocketDeal.ClientDeal;
2698
2699import java.awt.*.*;
2700import java.awt.event.*;
```

```
2701import java.util.Random;
2702
2703import SocketServe.*;
2704
2705public class WaitRoom {
2706    public JButton LoginButton = null;
2707    public JTextField peoCount = null;
2708    public JTextField wolfCount = null;
2709    public JCheckBox wizardOption;
2710    public JCheckBox hunterOption;
2711    public JCheckBox yuyanxiaOption;
2712    public JCheckBox winmodeOption;
2713    public JCheckBox speakOption;
2714    //public JCheckBox optionD;
2715    public JList UserList;
2716    public JFrame window = null;
2717    public JLabel Userlenlabel;
2718    public JLabel Charlenlabel;
2719    public String MIP = null;
2720    public int CharLen = 0;
2721    public int peoLen = 1;
2722    public int wolfLen = 1;
2723    public int wizardLen = 0;
2724    public int hunterLen = 0;
2725    public int yuyanxiaLen = 0;
2726    public void reset(String ip,String name,boolean isServer) {
2727        KillWolf.serverData.freeSpeak = false;
2728        KillWolf.serverData.playMode = false;
2729
2730        window = new JFrame("狼人杀 "+name+" "+ip);
2731        window.setVisible(false);
2732        window.setSize(400, 420);//设置大小
2733        window.setLocationRelativeTo(null);//设置居中
2734        window.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);//设置可关闭
2735        window.setLayout(null);//设置绝对布局（窗口里面的内容不会随着窗口的改变而改变）
2736        window.setResizable(false);//设置窗口不可拉伸改变大小
2737        //设置用户名标签
2738        JLabel username_label =new JLabel("用户名: "+name);
2739        username_label.setBounds(10,10,200,20);
2740        window.add(username_label);
2741        //设置标签
2742        JLabel ServerIp_label =new JLabel("服务器地址: "+KillWolf.ServerIp);
2743        ServerIp_label.setBounds(10,40,200,20);
2744        window.add(ServerIp_label);
```

```
2745 //设置标签
2746 Userlenlabel =new JLabel("在线玩家数: "+KillWolf.UsersRealLen);
2747 Userlenlabel.setBounds(10,150,200,20);
2748 window.add(Userlenlabel);
2749 JLabel label2 =new JLabel("等待开始...");
2750 label2.setBounds(10,70,200,20);
2751 window.add(label2);
2752 this.MIP = ip;
2753 //设置按钮
2754
2755 if(isServer) {
2756     LoginButton = new JButton("开始游戏");
2757     //LoginButton.setEnabled(false);
2758 }else {
2759     LoginButton = new JButton("等待房主开始");
2760     LoginButton.setEnabled(false);
2761 }
2762 LoginButton.setBounds(10, 120, 100, 20);
2763 window.add(LoginButton);
2764
2765 LinkAction LinkAction = new LinkAction();
2766 LoginButton.addActionListener(LinkAction);
2767
2768
2769 String[] items=new String[10];
2770 UserList=new JList(items); //创建 JList
2771 UserList.setBounds(200, 10, 150, 300);
2772 UserList.setFixedCellHeight(20);
2773 window.add(UserList);
2774
2775 if(KillWolf.isServer) {
2776     //设置文本框
2777     Charlenlabel =new JLabel("已选角色数: "+CharLen);
2778     Charlenlabel.setBounds(10,170,200,20);
2779     window.add(Charlenlabel);
2780
2781     JLabel Peolenlabel =new JLabel("平民");
2782     Peolenlabel.setBounds(10,200,40,20);
2783     window.add(Peolenlabel);
2784     peoCount = new JTextField();
2785     peoCount.setBounds(50,200,40,20);
2786     peoCount.setText(Integer.toString(peoLen));
2787     window.add(peoCount);
2788
```



```
2789         JLabel Wolflenlabel =new JLabel("狼人");
2790         Wolflenlabel.setBounds(10,220,40,20);
2791         window.add(Wolflenlabel);
2792         wolfCount = new JTextField();
2793         wolfCount.setBounds(50,220,40,20);
2794         wolfCount.setText(Integer.toString(wolfLen));
2795         window.add(wolfCount);
2796
2797
2798         Document dt = wolfCount.getDocument();
2799         dt.addDocumentListener(new TextListener("wolf"));
2800         wolfCount.addKeyListener(new CountKeyListener());
2801
2802
2803         Document dt2 = peoCount.getDocument();
2804         dt2.addDocumentListener(new TextListener("people"));
2805         peoCount.addKeyListener(new CountKeyListener());
2806
2807         //TextOnValueChanged WAL = new TextOnValueChanged();
2808         //wolfCount.addActionListener(WAL);
2809         //peoCount.addActionListener(WAL);
2810
2811         wizardOption = new JCheckBox("女巫");
2812         wizardOption.setBounds(10,240,80,20);
2813         hunterOption = new JCheckBox("猎人");
2814         hunterOption.setBounds(10,260,80,20);
2815         yuyanjiaOption = new JCheckBox("预言家");
2816         yuyanjiaOption.setBounds(10,280,100,20);
2817         //optionD = new JCheckBox("D.");
2818
2819
2820         wizardOption.addItemListener(new CheckValueChanged("wizard"));
2821         hunterOption.addItemListener(new CheckValueChanged("hunter"));
2822         yuyanjiaOption.addItemListener(new CheckValueChanged("yuyanjia"));
2823
2824         window.add(wizardOption);
2825         window.add(hunterOption);
2826         window.add(yuyanjiaOption);
2827
2828
2829         winmodeOption = new JCheckBox("屠城玩法（狼人需要全部淘汰民和神）");
2830         winmodeOption.setBounds(10,320,300,20);
2831         speakOption = new JCheckBox("允许随时发言");
2832         speakOption.setBounds(10,340,100,20);
```

```

2833
2834         winmodeOption.addItemListener(new CheckValueChanged("获胜玩法"));
2835         speakOption.addItemListener(new CheckValueChanged("发言"));
2836
2837         window.add(winmodeOption);
2838         window.add(speakOption);
2839
2840         updateCharCount(false);
2841     }
2842     window.setVisible(true);//设置面板可见
2843
2844
2845     //run(new ListTest(),250,375);
2846
2847 }
2848 public void setUserCount(String users[]) {
2849     Userlenlabel.setText("在线玩家数: "+KillWolf.UsersRealLen);
2850     UserList.setListData(users);
2851     UserList.setFixedCellHeight(20);
2852
2853     updateCharCount(false);
2854     //window.setTitle(Title);
2855 }
2856 class LinkAction implements ActionListener{//开始游戏
2857     public void actionPerformed(ActionEvent event){
2858         if(updateCharCount(true)) {
2859             LoginButton.setEnabled(false);
2860             Random r = new Random();
2861             //r.nextInt();
2862             r.setSeed(System.currentTimeMillis());
2863             int n;
2864             if(wizardOption.isSelected()) {
2865                 do {n = r.nextInt(KillWolf.serverData.UsersLen);}
2866                 while(KillWolf.serverData.ServerUsers[n] == null ||
KillWolf.serverData.ServerUsers[n].identify != null);
2867                 KillWolf.serverData.ServerUsers[n].identify = "女巫";
2868             }
2869             if(hunterOption.isSelected()) {
2870                 do {n = r.nextInt(KillWolf.serverData.UsersLen);}
2871                 while(KillWolf.serverData.ServerUsers[n] == null ||
KillWolf.serverData.ServerUsers[n].identify != null);
2872                 KillWolf.serverData.ServerUsers[n].identify = "猎人";
2873             }
2874             if(yuyanjiaOption.isSelected()) {

```

```

2875         do {n = r.nextInt(KillWolf.serverData.UsersLen);}
2876         while(KillWolf.serverData.ServerUsers[n] == null ||
        KillWolf.serverData.ServerUsers[n].identify != null);
2877         KillWolf.serverData.ServerUsers[n].identify = "预言家";
2878     }
2879     for(int i=0;i<wolfLen;i++){
2880         do {n = r.nextInt(KillWolf.serverData.UsersLen);}
2881         while(KillWolf.serverData.ServerUsers[n] == null ||
        KillWolf.serverData.ServerUsers[n].identify != null);
2882         KillWolf.serverData.ServerUsers[n].identify = "狼人";
2883     }
2884
2885     for(int i=0;i<KillWolf.serverData.UsersLen;i++){
2886         if(KillWolf.serverData.ServerUsers[i] != null &&
        KillWolf.serverData.ServerUsers[i].identify == null) {
2887             KillWolf.serverData.ServerUsers[i].identify = "平民";
2888         }
2889     }
2890
2891
2892     String STR = "";
2893     for(int i=0;i<KillWolf.serverData.UsersLen;i++) {
2894         DataUser p = KillWolf.serverData.ServerUsers[i];
2895         if(p!=null)STR = STR + "#u#" + p.name+"\t"+p.identify;
2896     }
2897     System.out.print(STR);
2898
2899     KillWolf.server.send("GAMESTART"+(KillWolf.serverData.freeSpeak?"TRUE":"FALSE")+STR);
2900 }
2901 }
2902
2903 class CheckValueChanged implements ItemListener{
2904     String ID;
2905     public CheckValueChanged(String ID) {
2906         this.ID = ID;
2907     }
2908
2909     public void itemStateChanged(ItemEvent e) {
2910         JCheckBox jcb = (JCheckBox) e.getItem();// 将得到的事件强制转化为 JCheckBox 类
2911         if (jcb.isSelected()) { // 推断是否被选择
2912             if(this.ID.equals("wizard")) wizardLen = 1;
2913             else if(this.ID.equals("hunter")) hunterLen = 1;
2914             else if(this.ID.equals("yuyanxia")) yuyanxiaLen = 1;

```

```
2915         else if(this.ID.equals("发言")) KillWolf.serverData.freeSpeak = true;
2916         else if(this.ID.equals("获胜玩法")) KillWolf.serverData.playMode = true;
2917     } else {
2918         if(this.ID.equals("wizard")) wizardLen = 0;
2919         else if(this.ID.equals("hunter")) hunterLen = 0;
2920         else if(this.ID.equals("yuyanxia")) yuyanxiaLen = 0;
2921         else if(this.ID.equals("发言")) KillWolf.serverData.freeSpeak = false;
2922         else if(this.ID.equals("获胜玩法")) KillWolf.serverData.playMode = false;
2923     }
2924     updateCharCount(false);
2925 }
2926 }
2927 class TextListener implements DocumentListener{
2928     String ID;
2929     public TextListener(String ID) {
2930         this.ID = ID;
2931     }
2932     public void insertUpdate(DocumentEvent e) {
2933         //System.out.println("insertUpdate" + e.toString());
2934         changedUpdate(e);
2935     }
2936     public void removeUpdate(DocumentEvent e) {
2937         //System.out.println("removeUpdate"+e.toString());
2938         changedUpdate(e);
2939     }
2940
2941     public void changedUpdate(DocumentEvent e) {
2942
2943         try {
2944             int num = Integer.parseInt(e.getDocument().getText(0, e.getDocument().getLength()));
2945             if(ID.equals("people")) {
2946                 peoLen = Math.abs(num);
2947             }else {
2948                 wolfLen = Math.abs(num);
2949             }
2950             updateCharCount(false);
2951         } catch (BadLocationException e1) {
2952             // TODO Auto-generated catch block
2953             e1.printStackTrace();
2954         } catch (Exception e21) {
2955             updateCharCount(false);
2956         }
2957     }
2958 }
```

```
2959
2960     }
2961 }
2962 public class CountKeyListener implements KeyListener {
2963     @Override
2964     public void keyTyped(KeyEvent e) {
2965         // TODO Auto-generated method stub
2966         int keyChar=e.getKeyChar();
2967         if (keyChar>=KeyEvent.VK_0 && keyChar<=KeyEvent.VK_9) {
2968             } else {
2969                 e.consume();
2970             }
2971         }
2972     @Override
2973     public void keyPressed(KeyEvent e) {
2974         // TODO Auto-generated method stub
2975     }
2976     @Override
2977     public void keyReleased(KeyEvent e) {
2978         // TODO Auto-generated method stub
2979     }
2980 }
2981 boolean updateCharCount(boolean isFinal) {
2982     CharLen = wolfLen+peoLen+wizardLen+hunterLen+yuyanxiaLen;
2983     if(CharLenlabel!=null) CharLenlabel.setText("已选角色数: "+CharLen);
2984     if(!KillWolf.isServer) return true;
2985     if(wolfLen<1 && isFinal) {
2986         JOptionPane.showMessageDialog(null, "狼人角色数量至少为 1");
2987         return false;
2988     }
2989
2990     if(CharLen == KillWolf.serverData.UsersRealLen) {
2991
2992         LoginButton.setEnabled(true);
2993         LoginButton.setText("开始游戏");
2994         return true;
2995     }else {
2996         LoginButton.setEnabled(false);
2997         LoginButton.setText("角色不匹配");
2998         return false;
2999     }
3000 }
3001 //定义新类，实现 Exit 按钮的时间监听
3002 /*class btnAction implements ActionListener
```

```

3003    { //接收事件
3004        public void actionPerformed(ActionEvent event)
3005    {
3006        Object object = event.getSource();
3007        if(object == JButton1)
3008            JButton1_actionPerformed(event);
3009    }
3010    } */
3011}

```

**分析总结、收获和体会:**

优点:

图形化页面、对所有用户的退出存在监测并实时应用到游戏中、联网游戏。

创新之处:

网络联机

不足之处:

图形页面没有图片、图标等

需要改进的地方:

图形页面没有图片、图标等

**自查自纠:**

是

否

程序是否有尚未解决的问题或 bug?

否

程序代码是否符合代码规范(对齐与缩进, 有必要的注释)?

是

是否按模块化要求进行了程序设计, 系统功能是否完善?

是

是否独立完成, 未参考其他人的设计或代码?

是

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