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**软件工程课程实践报告**

**汽车票预订管理系统**

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| **完成日期** | 2017年6月29日 |

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**汽车票预订管理系统**

# 1.前言

课程设计是对学生的一种全面综合训练，是理论相结合，两者相辅相成的、必不可少的一个学习环节。通常，课程设计中的问题比平时的习题出现的问题多，也更接近实际。课程设计是原理与应用的结合使用，使学生学会如何把书上学到的知识用于解决实际问题，培养目前所需要同学的动手能力。另一方面，使书上的知识变活，起到深化理解和灵活应用教学内容的目的。平时的习题局限于一个和二个知识点，而课程设计题是软件设计的综合训练，包括需求分析，系统设计,编码,测试与美工及附录.

我们这组选的课题是汽车预定管理系统的设计。从接到任务开始，我们首先对系统的需求分析进行了分析，在完成这个任务时，我们深感理论与实践结合的是重要的一个过程。从个人分工到整个系统分析，从设计到测试之所以能顺利完成是和大家的努力分不开的。虽然还有一些不足之处，但是我们还是从中获益不少。

# 2.需求分析

## 2.1任务概述

本系统是利用网络的方便、快捷和计算机的准确、高效实现汽车票网上订票系统。汽车票网上订票系统是通过主页访问、身份识别实现不同身份用户完成车票、用户的管理操作。系统有三个大的功能模块；登录注册功能模块，验证登录信息；管理员功能模块，实现车票和用户管理；普通用户模块，实现车票管理。

## 2.2功能需求分析

（1）登陆注册功能模块

进入登录注册功能模块，选择登录身份区别是普通用户或是系统管理员。如果是新用户，首先注册完毕后,然后进行登录。为保证信息的安全还对密码进行了加密。 户信息的增删改查。

（3）普通用户功能模块

1. 查询模块功能：主要完成站点信息查询、车票信息查询、订票信息查询等功能。站点信息查询是通过输入始发站和终点战显示对应的车次、车票价格、到站时间等信息；车票信息查询是通过输入车次显示对应的票价及是否还有剩余车票等信息。
2. 车票管理功能模块：主要完成汽车车票的订票，支付汽车票票额、退票等功能。

# 3.数据库设计

## 3.1系统设计总体思想

本系统分为三个模块，登录功能模块，验证登录信息；管理员功能模块，实现车票和车次管理；普通用户功能模块，实现车票和个人信息管理。通过登录系统访问界面，通过身份选择和判断帐户信息并区别不同身份的用户。汽车票网上订票系统简单、操作灵活、方便、反应快速、计算准确，系统运行稳定、安全可靠，而且有良好的交互界面，让使用者可以方便、快速的掌握。

3.2系统功能模块设计

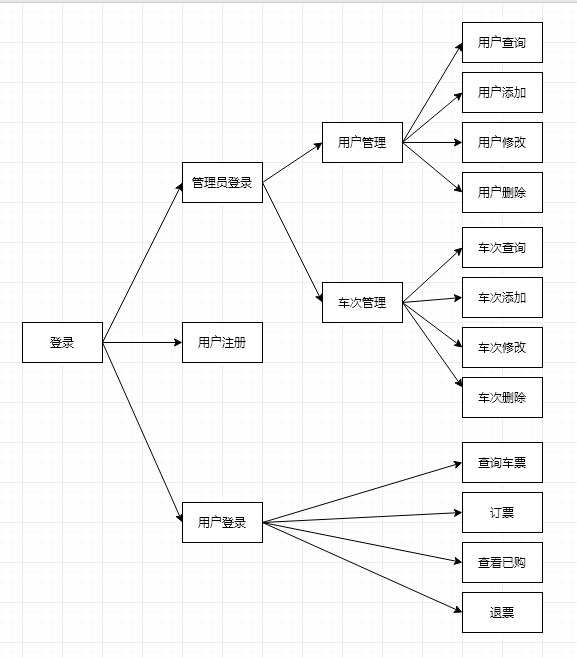


图3-1系统功能模块设计

## 3.3系统数据库设计

系统的E-R图如下所示：

通过对汽车票预定管理系统的数据分析并根据管理员之间的联系，我们可以得出与系统相关的实体有：用户编号、姓名、密码、手机号、身份证号、车次、票价、起点、终点、发车时间、座位号。

汽车票预定管理的数据库管理模式用语义描述如下：

（1）每个用户对应帐号只有一个密码，但是可以购买多张车票。

（2）每个用户可以查询多张车票信息。

（3）管理员可以进行对用户的各种增删改查。

根据如上描述，系统的E-R图如下所示：

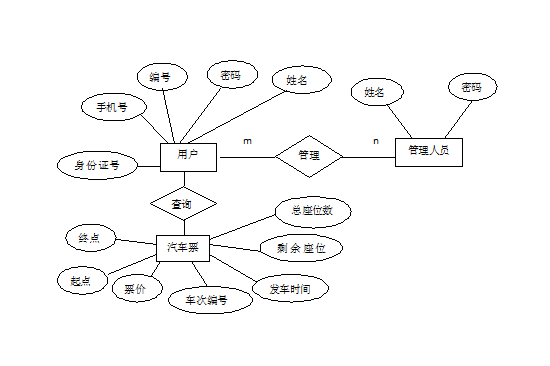


图3-2汽车票预订管理系统E-R图

根据实体之间的联系，以及分实体的属性，得出汽车票预订管理系统中各个实体的属性，如下图所示:



图3-3实体及其关系属性

## 3.4数据库表结构设计

根据E-R模型，我们可以得到该系统的数据库应该包括三个表，为普通用户表（UserInfo）、管理员信息表（ManagerInfo）、车票信息表（TrainNumberTable）和订票信息表（TicketInfo）。

表3-1普通用户信息表

|  |  |  |  |
| --- | --- | --- | --- |
| 名称 | 数据类型 | 主键 | 非空 |
| 用户编号IDNumberd | Varchar(50) | Yes | No |
| 姓名Name | Varchar(50) | No | No |
| 密码Password | Varchar(50) | No | No |
| 身份证号IDcard | Varchar(50) | No | No |
| 手机号Mobile | Varchar(50) | No | No |

表3-2管理员信息表

|  |  |  |  |
| --- | --- | --- | --- |
| 名称 | 数据类型 | 主键 | 非空 |
| 姓名Name | Varchar(50) | Yes | No |
| 密码Password | Varchar(50) | No | No |

表3-3用户购买的车票信息表

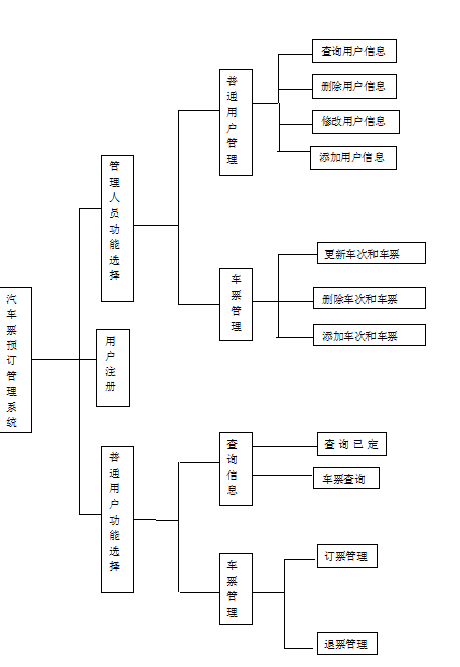
|  |  |  |  |
| --- | --- | --- | --- |
| 名称 | 数据类型 | 主键 | 非空 |
| 用户名UserName | Varchar(50) | No | No |
| 车票编号Id IdNumber | Varchar(50) | Yes | No |
| 车次编号TrainNumber | Varchar(50) | No | No |
| 座位号SetNumber | Varchar(50) | No | No |
| 起点站OriginStation | Varchar(50) | No | No |
| 终点站TerminaStation | Varchar(50) | No | No |
| 票价TicketPrice | Varchar(50) | No | No |
| 发车时间DepartureTime | Varchar(50) | No | No |

表3-4车次信息表

|  |  |  |  |
| --- | --- | --- | --- |
| 名称 | 数据类型 | 主键 | 非空 |
| 车次编号TrainNumber | Varchar(50) | Yes | No |
| 票价TicketsPrice | Varchar(50) | No | No |
| 发车时间DepartureTime | Varchar(50) | No | No |
| 起点站OriginStation | Varchar(50) | No | No |
| 终点站TerminalStation | Varchar(50) | No | No |
| 剩余座位数TicketsLeft | Varchar(50) | No | No |
| 总座位数TicketAll | Varchar(50) | No | No |

# 4.详细设计

## 4.1汽车票预订管理系统结构图



4-1车票预订管理系统结构图

## 4.2登录界面

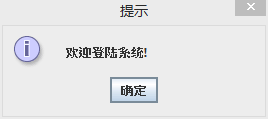
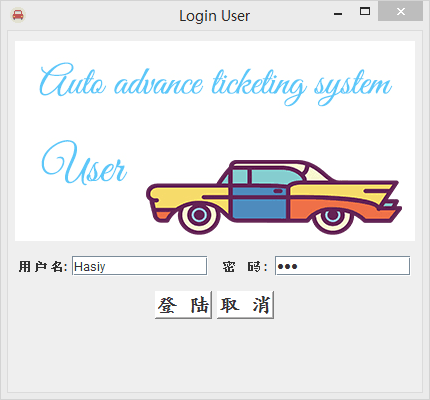
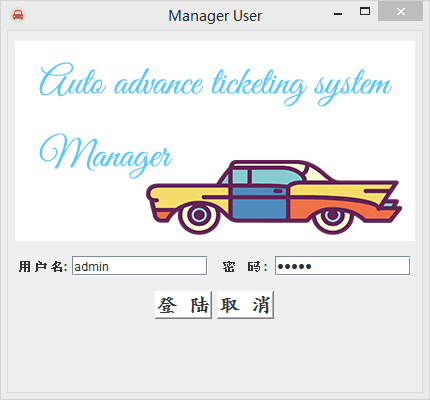


图4-2登录界面

登录界面是由两个标签Jlabel和一个JTextField，一个JpasswordField，两个JButton按钮分别有不同的功能。输入用户名密码，连接数据库调用数据，进行比对。

## 4.3注册界面

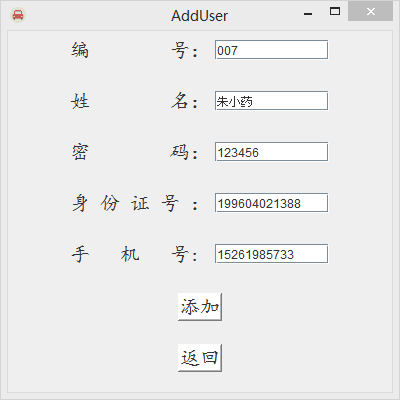


图4-3注册界面

注册界面是由五个标签Jlabel和五个TextField和两个JButton按钮，主要实现的功能就是对数据库进行写操作。

## 4.4管理员功能界面

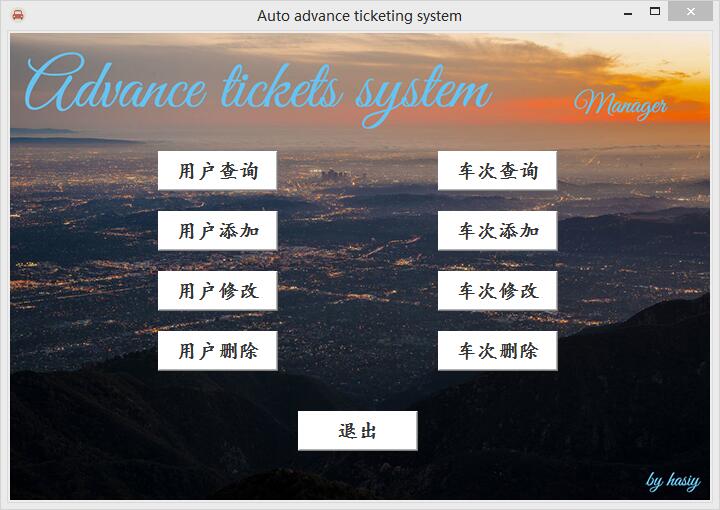


图4-4管理员主功能界面

主功能界面主要是由九个JButton组成。主要包含的是用户的查询、添加、修改、删除和车票的查询、添加、修改、删除功能，也就是对数据库的一个查询修改操作。

## 4.5用户查询界面

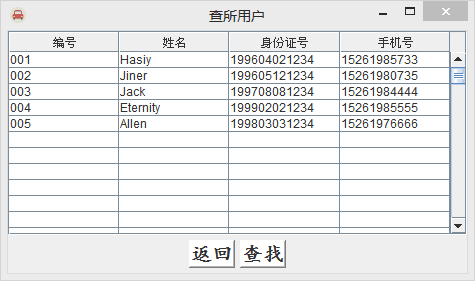


图4-5用户查询界面

查询数据界面主要包含的是7个Jlabel和7个TextField和两个JButton按钮，对数据库进行的一个查询的操作。

## 4.6用户添加界面

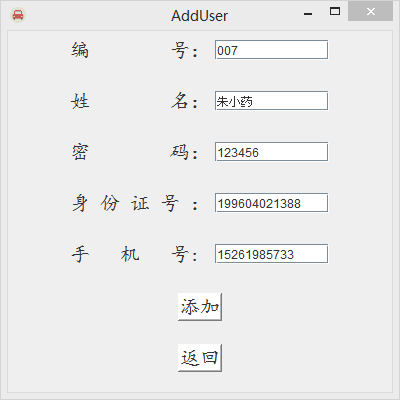


图4-6用户添加界面

添加数据界面主要包含的是5个Jlabel和57个TextField和2个JButton按钮，对数据库进行的一个添加数据的操作。

## 4.7用户删除界面

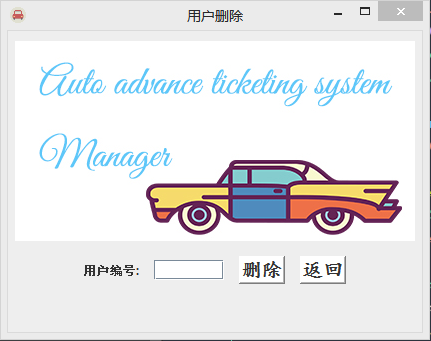


图4-7用户删除界面

删除数据界面主要包含的是一个Jlabel和一个TextField和两个JButton按钮，输入用户的编号，对数据库进行的一个删除数据的操作。

## 4.8车次查询界面

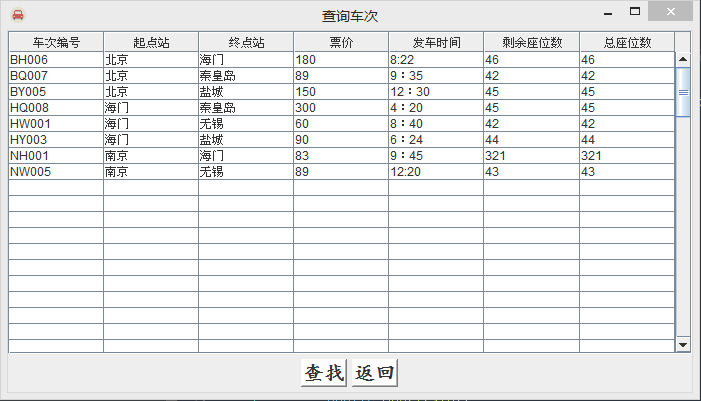


图4-8车次查询界面

查询车票数据界面主要包含的是7个Jlabel和7个TextField和两个JButton按钮，对数据库进行的一个查询的操作。

## 4.9车次删除界面

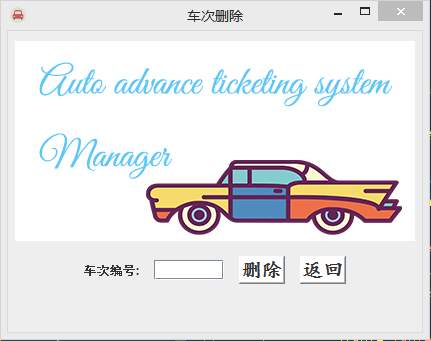


图4-9车票删除界面

删除车票界面是由1个标签Jlabel和1个JtextField1，2个JButton按钮组成，通过输入车次编号对车票进行删除。

## 4.10车次添加界面



图4-10车票添加界面

添加数据界面主要包含的是6个Jlabel和6个TextField和2个JButton按钮，对数据库进行的一个添加数据的操作。

## 4.11车次修改界面



图4-11车票修改界面

车票修改界面主要包含的是7个Jlabel和7个TextField和2个JButton按钮，对数据库进行的一个修改数据的操作。

## 4.12用户修改界面

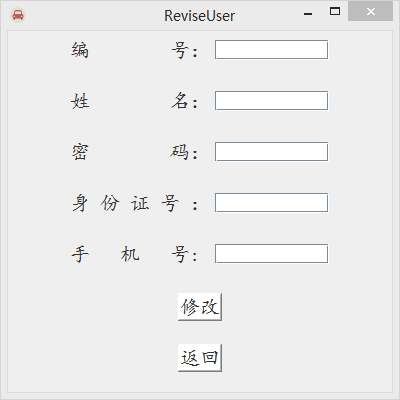


图4-12用户修改界面

用户修改界面主要包含的是5个Jlabel和5个TextField和2个JButton按钮，对数据库进行的一个添加数据的操作

## 4.13用户功能界面

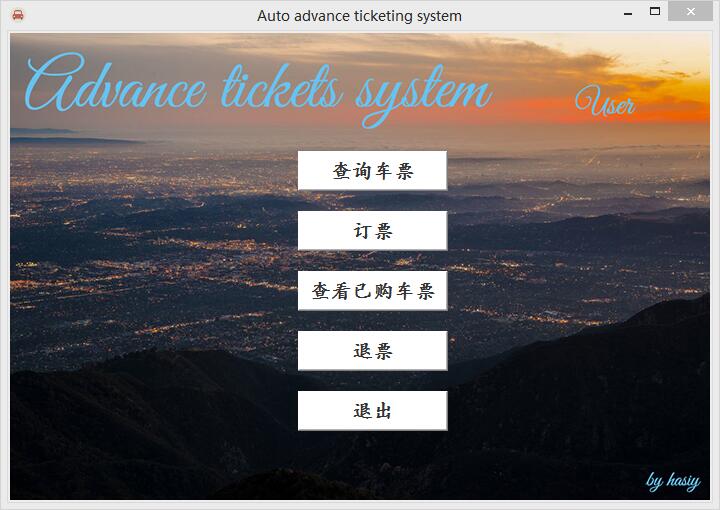


图4-13用户功能界面

主功能界面主要是由五个JButton组成。主要包含的是车票的查询、订购退票以及查询已经买了得车票的功能，也就是对数据库的一个查询修改操作。

## 4.14车票查询界面

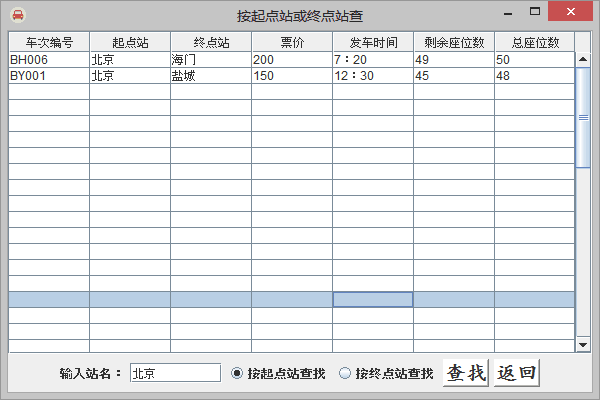


图4-14车票查询界面

车票查询界面主要包含的是1个Jlabel，1个TextField，2个JRadioButton和2个JButton按钮，对数据库进行的一个添加数据的操作。

## 4.15订票界面

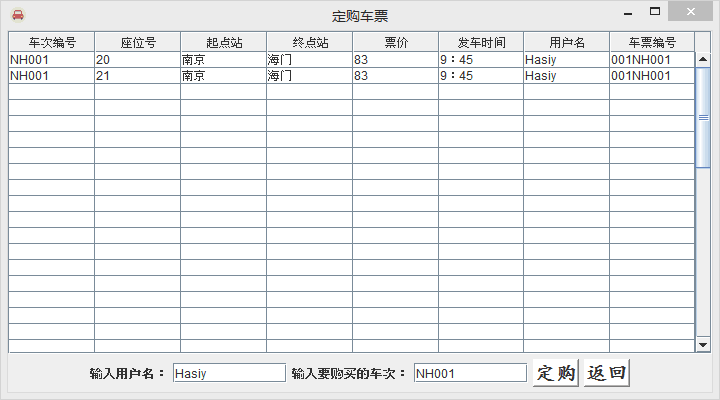


图4-15订票界面

订票界面主要包含的是1个Jlabel，1个TextField和2个JButton按钮，对数据库进行的一个添加数据的操作。

## 4.16查询已购车票界面

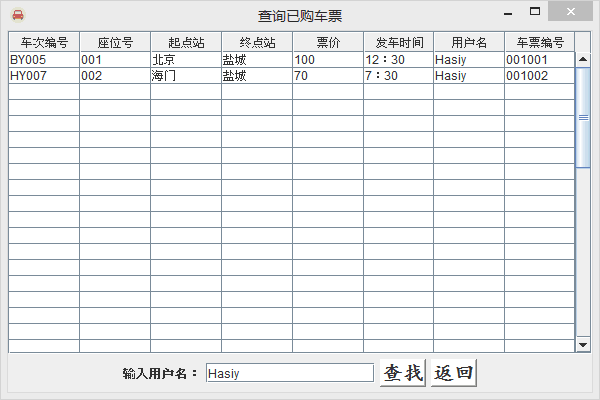
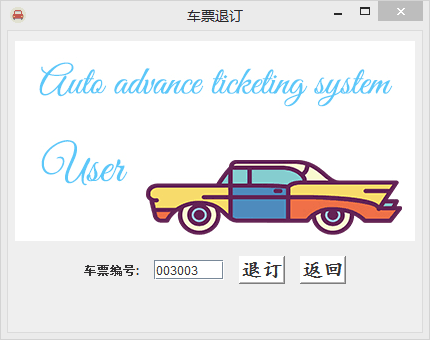


图4-16查询已购车票界面

查询已购车票界面主要包含的是1个Jlabel，1个TextField和2个JButton按钮，对数据库进行的一个查询数据的操作。

## 4.17退票界面



退票界面主要包含的是1个Jlabel，1个TextField和2个JButton按钮，对数据库进行的一个删除数据的操作。

图4-17退票界面

# 5.测试

## 5.1 软件登录模块测试

模块采用黑盒测试策略，设计测试用例实例如下：

表5-1测试用例

|  |  |  |
| --- | --- | --- |
| 序号 | 输入 | 预期结果 |
| 1 | 用户名，密码正确 | 登录成功 |
| 2 | 用户名不存在 | 登录失败 |
| 3 | 密码不正确 | 登录失败 |

测试结果如下：

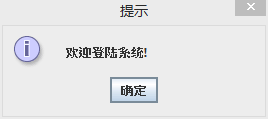


图5-1测试用例1

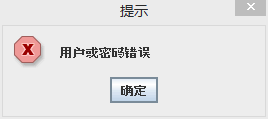


图5-2测试用例2，3

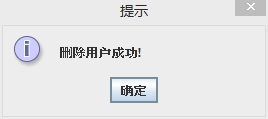
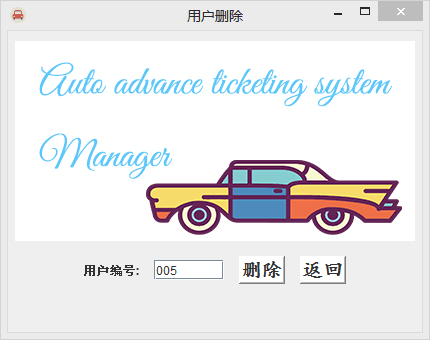
## 5.2 删除数据模块测试

模块采用黑盒测试策略，设计测试用例实例如下：

表5-2测试用例

|  |  |  |
| --- | --- | --- |
| 序号 | 输入 | 预期结果 |
| 1 | 数据库中存在的用户编号 | 删除成功 |
| 2 | 数据库中不存在的用户编号 | 删除失败 |

测试结果如下：



5-3测试用例1

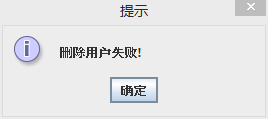
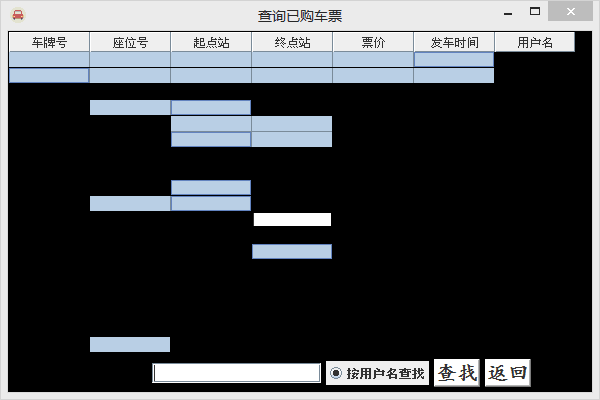


图5-4测试用例2

## 5.3 一些BUG



5-1 BUG1

# 6.个人总结

实验过程中，分为逻辑设计和详细设计两个步骤实现。逻辑设计指的是,对问题描述中涉及的操作对象定义相应的数据类型,并按照以数据结构为中心的原则划分模块，定义主程序模块和各抽象数据类型;详细设计则为定义相应的存储结构并写出各函数的伪码算法。作为逻辑设计的结果,应写出每个抽象数据类型的定义，各主要模块的算法,并画出模块之间的调用关系图；详细设计的结果是对数据结构的基本操作的规格说明做出进一步的求精。在设计过程中虽然遇到了一些问题，但经过一次又一次的思考，一遍又一遍的检查终于找出了原因所在，也暴露出了前期我在这方面的知识欠缺和经验不足。实践出真知，通过亲自动手制作，使我们掌握的知识不再是纸上谈兵。

通过这次课程设计，使我灵活应用所学Java知识，独立完成问题分析，结合数据库理论知识，编写程序求解指定问题。初步掌握软件开发过程的问题分析、系统设计、程序编码、测试等基本方法和技能；提高综合运用所学的理论知识和方法独立分析和解决问题的能力；并用系统的观点和软件开发一般规范进行软件开发，巩固、深化学生的理论知识，提高编程水平，并在此过程中培养我们严谨的科学态度和良好的工作作风。同时在这学期的实验中，培养了独立思考、动手操作的能力，在各种其它能力上也都有了提高。此次设计也让我明白了思路即出路，有什么不懂不明白的地方要及时请教或上网查询，只要认真钻研，动脑思考，动手实践，就没有弄不懂的知识，收获颇丰。

在实验课上，我学会了很多学习的方法。而这是日后最实用的。要面对社会的挑战，只有不断的学习、实践，再学习、再实践。这对于我的将来也有很大的帮助。以后，不管有多苦，我想我都能变苦为乐，找寻有趣的事情，发现其中珍贵的事情。就像中国提倡的艰苦奋斗一样，我都可以在实验结束之后变的更加成熟，会面对需要面对的事情，以及学会遇到问题，不急不慌，慢慢解决它。

# 附录： 车票预订系统编码规格说明书

# 引言

该文档的目的是描述学生公寓管理系统的编码规范，主要内容包括：

* 编码布局和格式规范
* 命名规范
* 语句规范
* 注释规范
* 目录设置

**二、编码布局和格式规范**

不规范的源代码而已不仅会影响程序的可读性、可维护性，同时会对程序的执行速度等性能问题产生影响。相反，良好的源代码规范将大大减少软件修改、测试、维护等工作量。这里，我们主要从可读性角度来说明源代码布局的问题。

在布局方面，一般涉及空格、空行、缩进、花括号、行长度等问题。

* 空格：一般应在关键字后留空格，操作符的左右留空格，在“,”等分隔符后留空格。
* 空行：在类之间、类成员之间、代码的不同逻辑代码之间都应加上空行。
* 缩进：缩进主要用来区分层次。类、类的成员之间应缩进，语句块内应缩进。
* 花括号：这里说的花括号不包括编程语言的语法规则中的花括号，而是为了增强代码可读性在代码中增加的花括号。所有的条件语句、循环语句内都应加上花括号。单独的代码逻辑块也应加上花括号。
* 行长度：为了方便阅读和编辑，一般行的长度不超过。如果某一行太长，则应换行。

1. 缩进

规范的缩进：

public class Main

{

public static void main(String[] args)

{

Login login=new Login();

login.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

}

}

不规范的缩进：

public class Main

{

public static void main(String[] args)

{

Login login=new Login();

login.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

}

}

2. 空格

规范的空格：

JPanel p1 = new JPanel();（关键字后、操作符的左右留空格）

不规范的空格：

JPanel \_p1 = new JPanel();

3.空行

以下情况应使用空行：

* 相信的两个方法之间。
* 同一方法中的两相信的逻辑代码段之间。
* 同一文件中对命名空间的引用和主体代码间。

规范的空行：

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.sql.Connection;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import javax.swing.JButton;

import javax.swing.JOptionPane;

public class UpdateStudent extends StudentEdit implements ActionListener{

JButton b3=new JButton("修改");

public UpdateStudent()

{

super();

p12.add(b3);

s.setEnabled(false);

name.setEditable(false);

birth.setEditable(false);

grade.setEnabled(false);

clas.setEnabled(false);

major.setEnabled(false);

b1.addActionListener(this);

b2.addActionListener(this);

b3.addActionListener(this);

}

不规范的空行：

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.sql.Connection;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import javax.swing.JButton;

import javax.swing.JOptionPane;

public class UpdateStudent extends StudentEdit implements ActionListener{

JButton b3=new JButton("修改");

public UpdateStudent()

{

super();

p12.add(b3);

s.setEnabled(false);

name.setEditable(false);

birth.setEditable(false);

grade.setEnabled(false);

clas.setEnabled(false);

major.setEnabled(false);

b1.addActionListener(this);

b2.addActionListener(this);

b3.addActionListener(this);

}

4. 花括号

规范的花括号用法：

条件语句：

if(e.getActionCommand()=="取消")

{

setVisible(false);

}

不规范的花括号用法：

条件语句：

if(e.getActionCommand()=="取消")

{

setVisible(false);

}

或

if(e.getActionCommand()=="取消")

{ setVisible(false);

**三、命名规范**

命名规范的原则是：简洁、美观、表达力强、可读性好、同时整体上统一。

1. 类

使用能表达该类意义的完整的单词串，每个单词的首字母大写，其他字母小写。

规范的类命名：

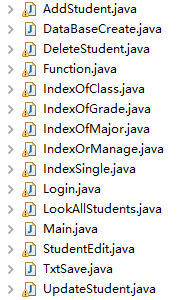


图3-1

不规范的类命名：

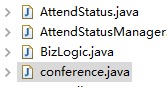


图3-2

2. 方法

使用能表达该方法意义的完整的单词串，每个单词的首字母大写，其他字母小写。

规范的方法命名：



3. 变量

规范的变量命名：

String[] grades = {"","2010","2011","2012","2013"};

不规范的变量命名：

string[] grades = {"","2010","2011","2012","2013"};

**四、语句规范**

规范的简单语句格式：

JButton b1 = new JButton("登录");

JButton b2 = new JButton("退出");

不规范的简单语句格式：

JButton b1 = new JButton("登录");JButton b2 = new JButton("退出");

**五、注释规范**

注释格式有三种：

* /\*\*/：可进行单行和多行的注释
* //：可进行单行注释
* ///：可对某一方法进行注释

这里举例第二种单行注释的方法：

import java.sql.\*;

//连接数据库类

public class DataBaseCreate

{

//连接数据库静态方法，若产生错误，则抛出相应错误信息

public static Connection getConnection()throws SQLException,java.lang.ClassNotFoundException

{

//建立本地数据库连接，编码规则转换为utf-8(正常录入中文)

String url="jdbc:mysql://localhost:3306/studentmanagement?useUnicode=true&characterEncoding=utf8"; Class.forName("com.mysql.jdbc.Driver");

String userName = "root";

Connection con = DriverManager.getConnection(url, userName, "");

return con;

}

}

# 七、源代码

package car;

/\*\*

\* Created by zhuxiaoyao on 2017/6/25.

\*/

import java.awt.\*;

import javax.swing.\*;

import java.awt.event.\*;

public class About extends JFrame implements ActionListener

{

// 关于

private static final long serialVersionUID = 1L;

JLabel l\_name,l\_edition,l\_text,l\_warning,l\_contact;

JButton b\_yes;

JPanel pan1,pan2,pan3,pan4,pan5,mainpan;

public About(){

super("About Auto advance ticketing system");

Image img=Toolkit.getDefaultToolkit().getImage(car.About.class.getResource("1.png"));

setIconImage(img);

mainpan=new JPanel();

this.getContentPane().add(mainpan);

mainpan.setLayout(new GridLayout(5,1));

l\_name=new JLabel("Name:Auto advance ticketing system");

l\_edition=new JLabel("Ver:2.3.3");

l\_text=new JLabel("Build id: 20170625-2352");

l\_warning=new JLabel("Powered by Hasiy");

l\_contact=new JLabel("2017 Hasiy Inc. ");

b\_yes=new JButton("OK");

b\_yes.setFont(new java.awt.Font("楷体", 1, 15));// 设置按钮的字体大小 颜按钮色

b\_yes.setBackground(Color.white);

b\_yes.setBorder(BorderFactory.createRaisedBevelBorder());

b\_yes.addActionListener(this);

pan1=new JPanel();

pan2=new JPanel();

pan3=new JPanel();

pan4=new JPanel();

pan5=new JPanel();

pan1.add(l\_name);

pan2.add(l\_edition);

pan3.add(l\_text);

pan4.add(l\_warning);

pan4.add(b\_yes);

pan5.add(l\_contact);

mainpan.add(pan1);

mainpan.add(pan2);

mainpan.add(pan3);

mainpan.add(pan4);

mainpan.add(pan5);

setBounds(400,200,380,240);

setResizable(false);

setVisible(true);

}

public void actionPerformed(ActionEvent ae){

//确定键

if (ae.getSource()==b\_yes) {

this.dispose();

}

}

public static void main(String[] args){

new About();

}

}

package car;

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.sql.\*;

/\*\*

\* Created by zhuxiaoyao on 2017/6/26.

\*/

public class AddTicket extends JFrame implements ActionListener{//添加 通过

private static final long serialVersionUID = 1L;

JLabel lTrainNumber,lOriginStation,lTerminalStation,lTicketPrice,lDepartureTime,lTicketsLeft,llTicketsAll;

JTextField tTrainNumber,tOriginStation,tTerminalStation,tTicketPrice,tDepartureTime,tTicketsLeft,tTicketsAll;

JButton bAdd,bBack;

JPanel panelMain,panel1,panel2,panel3,panel4,panel5,panel6,panel7,panel8,panel9;

public AddTicket(){

super("车次添加");

Image img=Toolkit.getDefaultToolkit().getImage(car.AddTicket.class.getResource("1.png"));

setIconImage(img);

setBounds(200,100,400,450);// 窗口位置 大小

UIManager.put("Button.select",new Color(44, 162, 200)); //按钮按下后的颜色

panelMain=new JPanel();

JPanel panelMain=new JPanel(new GridLayout(9,1));

this.setContentPane(panelMain);

lTrainNumber=new JLabel("车 次 ： ");

lTrainNumber.setFont(new Font("楷体",0, 20));

lOriginStation=new JLabel("起 点 站： ");

lOriginStation.setFont(new Font("楷体",0, 20));

lTerminalStation=new JLabel("终 点 站： ");

lTerminalStation.setFont(new Font("楷体",0, 20));

lTicketPrice=new JLabel("票 价 ： ");

lTicketPrice.setFont(new Font("楷体",0, 20));

lDepartureTime=new JLabel("发车时间 : ");

lDepartureTime.setFont(new Font("楷体",0, 20));

lTicketsLeft=new JLabel("余 票 ： ");

lTicketsLeft.setFont(new Font("楷体",0, 20));

llTicketsAll=new JLabel("总 票 ： ");

llTicketsAll.setFont(new Font("楷体",0, 20));

tTrainNumber=new JTextField(10);

tOriginStation=new JTextField(10);

tTerminalStation=new JTextField(10);

tTicketPrice=new JTextField(10);

tDepartureTime=new JTextField(10);

tTicketsLeft=new JTextField(10);

tTicketsAll=new JTextField(10);

panel1=new JPanel();

panel1.add(lTrainNumber);panel1.add(tTrainNumber);

panel2=new JPanel();

panel2.add(lOriginStation);panel2.add(tOriginStation);

panel3=new JPanel();

panel3.add(lTerminalStation);panel3.add(tTerminalStation);

panel4=new JPanel();

panel4.add(lTicketPrice);panel4.add(tTicketPrice);

panel5=new JPanel();

panel5.add(lDepartureTime);panel5.add(tDepartureTime);

panel6=new JPanel();

panel6.add(lTicketsLeft);panel6.add(tTicketsLeft);

panel7=new JPanel();

panel7.add(llTicketsAll);panel7.add(tTicketsAll);

bAdd=new JButton("添加");

bAdd.setFont(new java.awt.Font("楷体", 0, 20));// 设置按钮的字体大小 颜按钮色

bAdd.setBackground(new Color(255, 255, 255));

bAdd.setBorder(BorderFactory.createRaisedBevelBorder());

bAdd.addActionListener(this);

bBack=new JButton("返回");

bBack.setFont(new java.awt.Font("楷体", 0, 20));// 设置按钮的字体大小 颜按钮色

bBack.setBackground(new Color(255, 255, 255));

bBack.setBorder(BorderFactory.createRaisedBevelBorder());

bBack.addActionListener(this);

panel8=new JPanel();

panel8.add(bAdd);

panel9=new JPanel();

panel9.add(bBack);

panelMain.add(panel1);

panelMain.add(panel2);

panelMain.add(panel3);

panelMain.add(panel4);

panelMain.add(panel5);

panelMain.add(panel6);

panelMain.add(panel7);

panelMain.add(panel8);

panelMain.add(panel9);

setVisible(true);

}

public void actionPerformed(ActionEvent ae){

if(ae.getSource()==bBack){

dispose();

}

else if(ae.getSource()==bAdd){

if(tTrainNumber.getText().equals("") || tOriginStation.getText().equals("") || tTerminalStation.getText().equals("")||tTicketPrice.getText().equals("")||tDepartureTime.getText().equals("")||tTicketsLeft.getText().equals("")||tTicketsAll.getText().equals("")){

JOptionPane.showMessageDialog(null,"添加信息不能为空!","提示",JOptionPane.ERROR\_MESSAGE);

}

else{

String a1,a2,a3,a4,a5,a6,a7;

int z;

a1="'"+tTrainNumber.getText().trim()+"'";

a2="'"+tOriginStation.getText().trim()+"'";

a3="'"+tTerminalStation.getText().trim()+"'";

a4="'"+tTicketPrice.getText().trim()+"'";

a5="'"+tDepartureTime.getText().trim()+"'";

a6="'"+tTicketsLeft.getText().trim()+"'";

a7="'"+tTicketsAll.getText().trim()+"'";

String d="insert into TrainNumberTable (TrainNumber,OriginStation,TerminalStation,TicketPrice,DepartureTime,TicketsLeft,TicketAll) VALUES ("+a1+","+a2+","+a3+","+a4+","+a5+","+a6+","+a7+")";

Connection conn1;

PreparedStatement stat;

try{

Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");

conn1=DriverManager.getConnection("jdbc:sqlserver://localhost:1433;DatabaseName=car","sa","512512");

stat=conn1.prepareStatement(d);

z=stat.executeUpdate();

if(z<1){

JOptionPane.showMessageDialog(null,"添加车票失败!","提示",JOptionPane.ERROR\_MESSAGE);

}

else{

JOptionPane.showMessageDialog(null,"添加车票成功!","提示",JOptionPane.INFORMATION\_MESSAGE);

}

conn1.close();

}

catch(Exception e){

e.printStackTrace();

}

}

}

}

public static void main(String[] args) {

new car.AddTicket();

}

}

package car;

import javax.swing.\*;

import java.awt.\*;

import java.awt.Image;

import java.awt.Toolkit;

import java.awt.event.\*;

import java.sql.\*;

/\*\*

\* Created by zhuxiaoyao on 2017/6/26.

\*/

public class AddUser extends JFrame implements ActionListener{// / 添加 通过

private static final long serialVersionUID = 1L;

JLabel lNo,lName,lId,lPassword,lMobile;

JTextField tNo,tName,tId,tPassword,tMobile;

JButton bAdd,bBack;

JPanel panelMain,panel1,panel2,panel3,panel4,panel5,panel6,panel7;

public AddUser(){

super("AddUser");

Image img=Toolkit.getDefaultToolkit().getImage(car.AddUser.class.getResource("1.png"));

setIconImage(img);

setBounds(200,100,400,400);// 窗口位置 大小

UIManager.put("Button.select",new Color(44, 162, 200)); //按钮按下后的颜色

panelMain=new JPanel();

JPanel panelMain=new JPanel(new GridLayout(7,1));

this.setContentPane(panelMain);

lNo=new JLabel("编 号：");

lNo.setFont(new Font("楷体",0, 20));

lName=new JLabel("姓 名：");

lName.setFont(new Font("楷体",0, 20));

lPassword=new JLabel("密 码：");

lPassword.setFont(new Font("楷体",0, 20));

lId=new JLabel("身 份 证 号 ：");

lId.setFont(new Font("楷体",0, 20));

lMobile=new JLabel("手 机 号: ");

lMobile.setFont(new Font("楷体",0, 20));

tNo=new JTextField(10);

tName=new JTextField(10);

tId=new JTextField(10);

tPassword=new JTextField(10);

tMobile=new JTextField(10);

panel1=new JPanel();

panel1.add(lNo);panel1.add(tNo);

panel2=new JPanel();

panel2.add(lName);panel2.add(tName);

panel3=new JPanel();

panel3.add(lPassword);panel3.add(tPassword);

panel4=new JPanel();

panel4.add(lId);panel4.add(tId);

panel5=new JPanel();

panel5.add(lMobile);panel5.add(tMobile);

bAdd=new JButton("添加");

bAdd.setFont(new java.awt.Font("楷体", 0, 20));// 设置按钮的字体大小 颜按钮色

bAdd.setBackground(new Color(255, 255, 255));

bAdd.setBorder(BorderFactory.createRaisedBevelBorder());

bAdd.addActionListener(this);

bBack=new JButton("返回");

bBack.setFont(new java.awt.Font("楷体", 0, 20));// 设置按钮的字体大小 颜按钮色

bBack.setBackground(new Color(255, 255, 255));

bBack.setBorder(BorderFactory.createRaisedBevelBorder());

bBack.addActionListener(this);

panel6=new JPanel();

panel6.add(bAdd);

panel7=new JPanel();

panel7.add(bBack);

panelMain.add(panel1);

panelMain.add(panel2);

panelMain.add(panel3);

panelMain.add(panel4);

panelMain.add(panel5);

panelMain.add(panel6);

panelMain.add(panel7);

setVisible(true);

}

public void actionPerformed(ActionEvent ae){

if(ae.getSource()==bBack){

dispose();

}

else if(ae.getSource()==bAdd){

if(tNo.getText().equals("") || tName.getText().equals("")||tId.getText().equals("")||tPassword.getText().equals("")||tMobile.getText().equals("")){

JOptionPane.showMessageDialog(null,"添加信息不能为空!","提示",JOptionPane.ERROR\_MESSAGE);

}

else{

String a1,a2,a3,a4,a5,a6="";

char temp = 0;

int r,i;

a1="'"+tNo.getText().trim()+"'";

a2="'"+tName.getText().trim()+"'";

a3=tPassword.getText().trim();

a4="'"+tId.getText().trim()+"'";

a5="'"+tMobile.getText().trim()+"'";

for(i=0;i<a3.length();i++) {

if((a3.charAt(i) > 32 && a3.charAt(i) < 107) )

temp=(char) (a3.charAt(i) + 20);

else if((a3.charAt(i) > 106 && a3.charAt(i) < 127))

temp=(char) (a3.charAt(i) -74 );

a6+=temp;

}

a6="'"+a6+"'";// 密码的加密

String b="insert into UserInfo(IDnumbered,Name,Password,IDcard,Mobile) VALUES ("+a1+","+a2+","+a6+","+a4+","+a5+")";

Connection conn;

PreparedStatement stat;

try{

Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");

conn=DriverManager.getConnection("jdbc:sqlserver://localhost:1433;DatabaseName=car","sa","512512");

stat=conn.prepareStatement(b);

r=stat.executeUpdate();

if(r<1){

JOptionPane.showMessageDialog(null,"添加用户失败!","提示",JOptionPane.ERROR\_MESSAGE);

}

else{

JOptionPane.showMessageDialog(null,"添加用户成功!","提示",JOptionPane.INFORMATION\_MESSAGE);

}

conn.close();

}

catch(Exception e){

e.printStackTrace();

}

}

}

}

public static void main(String[] args) {

new AddUser();

}

}

package car;

/\*\*

\* Created by zhuxiaoyao on 2017/6/25.

\*/

import javax.swing.\*;

import java.awt.Color;

import java.awt.Image;

import java.awt.Toolkit;

import java.awt.event.\*;

import java.sql.\*;

public class DeleteTicket extends JFrame implements ActionListener{

//删除 通过

private static final long serialVersionUID = 1L;

JLabel lNO,lbTitle;

JTextField tNO;

JButton bDelete,bBack;

JPanel panelMain,panel11,panel1,panel2,panel3,panel4;

public DeleteTicket(){

super("车次删除");

Image img=Toolkit.getDefaultToolkit().getImage(car.DeleteTicket.class.getResource("1.png"));

setIconImage(img);

UIManager.put("Button.select",new Color(100,200,100));

setLayout(null);

panelMain=new JPanel();

this.setContentPane(panelMain);

panel11 = new JPanel();

lbTitle = new JLabel(new ImageIcon(car.DeleteTicket.class.getResource("ManagerLogin.jpg")));

panel11.add(lbTitle);

panel1=new JPanel();

panel2=new JPanel();

lNO=new JLabel("车次编号:");

tNO=new JTextField(6);

panel1.add(lNO);

panel2.add(tNO);

panel3=new JPanel();

bDelete=new JButton("删除");

bDelete.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

bDelete.setBackground(Color.white);

bDelete.setBorder(BorderFactory.createRaisedBevelBorder());

panel4=new JPanel();

bBack=new JButton("返回");

bBack.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

bBack.setBackground(Color.white);

bBack.setBorder(BorderFactory.createRaisedBevelBorder());

panel3.add(bDelete);

panel4.add(bBack);

panelMain.add(panel11);

panelMain.add(panel1);

panelMain.add(panel2);

panelMain.add(panel3);

panelMain.add(panel4);

setBounds(500,300,430,340);

bDelete.addActionListener(this);

bBack.addActionListener(this);

setVisible(true);

setResizable(true);

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

}

public void actionPerformed(ActionEvent ae){

if(ae.getActionCommand()=="返回"){

this.dispose();

}

else if(ae.getActionCommand()=="删除"){

Connection con;

PreparedStatement stat;

String b="delete from TrainNumberTable where TrainNumber="+"'"+tNO.getText()+"'"+"";

try{

Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");

con=DriverManager.getConnection("jdbc:sqlserver://localhost:1433;DatabaseName=car","sa","512512");

stat=con.prepareStatement(b);

stat.executeUpdate();

JOptionPane.showMessageDialog(null,"删除车票成功!","提示",JOptionPane.INFORMATION\_MESSAGE);

}

catch(Exception e){

e.printStackTrace();

}

}

}

public static void main(String[] args) {

new DeleteTicket();

}

}

package car;

/\*\*

\* Created by zhuxiaoyao on 2017/6/25.

\*/

import javax.swing.\*;

import java.awt.Color;

import java.awt.Image;

import java.awt.Toolkit;

import java.awt.event.\*;

import java.sql.\*;

public class DeleteUser extends JFrame implements ActionListener{

//删除 通过

private static final long serialVersionUID = 1L;

JLabel lNO,lbTitle;

JTextField tNO;

JButton bDelete,bBack;

JPanel panelMain,panel11,panel1,panel2,panel3,panel4;

public DeleteUser(){

super("用户删除");

Image img=Toolkit.getDefaultToolkit().getImage(car.DeleteUser.class.getResource("1.png"));

setIconImage(img);

UIManager.put("Button.select",new Color(100,200,100));

setLayout(null);

panelMain=new JPanel();

this.setContentPane(panelMain);

panel11 = new JPanel();

lbTitle = new JLabel(new ImageIcon(car.DeleteUser.class.getResource("ManagerLogin.jpg")));

panel11.add(lbTitle);

panel1=new JPanel();

panel2=new JPanel();

lNO=new JLabel("用户编号:");

tNO=new JTextField(6);

panel1.add(lNO);

panel2.add(tNO);

panel3=new JPanel();

bDelete=new JButton("删除");

bDelete.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

bDelete.setBackground(Color.white);

bDelete.setBorder(BorderFactory.createRaisedBevelBorder());

panel4=new JPanel();

bBack=new JButton("返回");

bBack.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

bBack.setBackground(Color.white);

bBack.setBorder(BorderFactory.createRaisedBevelBorder());

panel3.add(bDelete);

panel4.add(bBack);

panelMain.add(panel11);

panelMain.add(panel1);

panelMain.add(panel2);

panelMain.add(panel3);

panelMain.add(panel4);

setBounds(500,300,430,340);

bDelete.addActionListener(this);

bBack.addActionListener(this);

setVisible(true);

setResizable(true);

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

}

public void actionPerformed(ActionEvent ae){

if(ae.getActionCommand()=="返回"){

this.dispose();

}

else if(ae.getActionCommand()=="删除"){

Connection con;

PreparedStatement stat;

int r;

String b="delete from UserInfo where IDnumbered="+"'"+tNO.getText()+"'"+"";

try{

Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");

con=DriverManager.getConnection("jdbc:sqlserver://localhost:1433;DatabaseName=car","sa","512512");

stat=con.prepareStatement(b);

r=stat.executeUpdate();

if (r<1){

JOptionPane.showMessageDialog(null,"删除用户失败/不存在改用户!","提示",JOptionPane.ERROR\_MESSAGE);}

else{

JOptionPane.showMessageDialog(null,"删除用户成功!","提示",JOptionPane.INFORMATION\_MESSAGE);}

}

catch(Exception e){

e.printStackTrace();

}

}

}

public static void main(String[] args) {

new DeleteUser();

}

}

package car;

import javax.swing.\*;

import java.awt.Color;

import java.awt.Image;

import java.awt.Toolkit;

import java.awt.event.\*;

import java.awt.\*;

/\*\*

\* Created by zhuxiaoyao on 2017/6/25.

\*/

public class Login extends JFrame implements ActionListener{

private static final long serialVersionUID = 1L;

//定义

JButton b1,b2,b3,b4,b5;

public Login(){

setTitle("Auto advance ticketing system");

Image img=Toolkit.getDefaultToolkit().getImage(car.Login.class.getResource("1.png"));

setIconImage(img);

setSize(420,540);

setLocation(100,150);

JLabel label = new JLabel(new ImageIcon(car.Login.class.getResource("Login.jpg")));

label.setBounds(-8,-5,this.getWidth(), this.getHeight());

JPanel imagePanel = (JPanel) this.getContentPane();

imagePanel.setOpaque(false);

this.getLayeredPane().add(label,new Integer(Integer.MIN\_VALUE));

setLayout(null);// 必须要有 设置按键布局

setBounds(200,100,420,550); // 窗口位置 大小

Container c = getContentPane();

UIManager.put("Button.select",new Color(158, 186, 200)); //按钮按下后的颜色

b1 = new JButton("管理员"); // 创建按钮

b2 = new JButton("用户");

b3 = new JButton("注册");

b4 = new JButton("关于");

b5 = new JButton("退出");

b1.setBounds(160, 190, 100, 40); // 设置按钮的位置与大小

b2.setBounds(160, 250, 100, 40);

b3.setBounds(160, 310, 100, 40);

b4.setBounds(160, 370, 100, 40);

b5.setBounds(160, 430, 100, 40);

b1.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

b1.setBackground(new Color(218, 255, 156));

b2.setFont(new java.awt.Font("楷体", 1, 20));

b2.setBackground(new Color(218, 255, 156));

b3.setFont(new java.awt.Font("楷体", 1, 20));

b3.setBackground(new Color(218, 255, 156));

b4.setFont(new java.awt.Font("楷体", 1, 20));

b4.setBackground(new Color(218, 255, 156));

b5.setFont(new java.awt.Font("楷体", 1, 20));

b5.setBackground(new Color(154, 255, 155));

b1.setBorder(BorderFactory.createRaisedBevelBorder()); //设置按钮样式 凸

b2.setBorder(BorderFactory.createRaisedBevelBorder());

b3.setBorder(BorderFactory.createRaisedBevelBorder());

b4.setBorder(BorderFactory.createRaisedBevelBorder());

b5.setBorder(BorderFactory.createRaisedBevelBorder());

c.add(b1);

c.add(b2);

c.add(b3);

c.add(b4);

c.add(b5);

b1.addActionListener(this);//注册监听

b2.addActionListener(this);

b3.addActionListener(this);

b4.addActionListener(this);

b5.addActionListener(this);

setVisible(true);

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

}

public void actionPerformed(ActionEvent a){ // 按钮事件监听[

if(a.getActionCommand().equals("管理员")){

new ManagerLogin();

}

if(a.getActionCommand().equals("用户")){

new UserLogin();

}

if(a.getActionCommand().equals("注册")){

new AddUser();

}

if(a.getActionCommand().equals("关于")){

new About();

}

if(a.getActionCommand()=="退出"){

System.exit(0);

}

}

public static void main(String[] args) {

new Login();

}

}

/\*\*

\* Created by zhuxiaoyao on 2017/6/25.

\* sql test

\*/

package car;

import java.sql.\*;

public class Main {

public static void main(String[] args) {

String driverName = "com.microsoft.sqlserver.jdbc.SQLServerDriver";

String dbURL = "jdbc:sqlserver://localhost:1433;DatabaseName=Text";

String userName = "sa";

String userPwd = "512512";

Connection ConnectiondbConn;

try {

Class.forName(driverName);

ConnectiondbConn = DriverManager.getConnection(dbURL, userName, userPwd);

ConnectiondbConn.setAutoCommit(true);

System.out.println("连接数据库成功");

} catch (Exception e) {

e.printStackTrace();

System.out.print("连接失败");

}

}

}

package car;

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.sql.\*;

/\*\*

\* Created by zhuxiaoyao on 2017/6/26.

\*/

public class ManagerLogin extends JFrame implements ActionListener {

// 登录

private static final long serialVersionUID = 1L;

//定义

JLabel lbUser, lbPass, lbTitle;

JTextField tUser;

JPasswordField password;

JButton bLogin, bCancel;

JPanel panelMain, panel1, panel2, panel3, panel4;

public ManagerLogin() {

//主面板

super("Manager User");

Image img = Toolkit.getDefaultToolkit().getImage(car.ManagerLogin.class.getResource("1.png"));

setIconImage(img);

UIManager.put("Button.select", new Color(100, 200, 100));

setLayout(null);

panelMain = new JPanel();

this.setContentPane(panelMain);

//标题

panel1 = new JPanel();

lbTitle = new JLabel(new ImageIcon(car.ManagerLogin.class.getResource("ManagerLogin.jpg")));

panel1.add(lbTitle);

//用户名

panel2 = new JPanel();

lbUser = new JLabel("用 户 名:");

tUser = new JTextField(12);

panel2.add(lbUser);

panel2.add(tUser);

//密码

panel3 = new JPanel();

lbPass = new JLabel("密 码 : ");

password = new JPasswordField(12);

panel3.add(lbPass);

panel3.add(password);

//按钮

panel4 = new JPanel();

bLogin = new JButton("登 陆");

bLogin.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

bLogin.setBackground(Color.white);

bLogin.setBorder(BorderFactory.createRaisedBevelBorder());

bLogin.addActionListener(this);

bCancel = new JButton("取 消");

bCancel.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

bCancel.setBackground(Color.white);

bCancel.setBorder(BorderFactory.createRaisedBevelBorder());

bCancel.addActionListener(this);

bLogin.setBounds(380, 480, 50, 50);

bCancel.setBounds(390, 480, 50, 50);

panel4.add(bLogin);

panel4.add(bCancel);

//子面板添加

panelMain.add(panel1);

panelMain.add(panel2);

panelMain.add(panel3);

panelMain.add(panel4);

//窗体属性

setBounds(400, 250, 430, 400);

setVisible(true);

setResizable(true);

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

}

//按钮事件

public void actionPerformed(ActionEvent ae) {

//登陆按钮

if (ae.getSource() == bLogin) {

if (tUser.getText().equals("") || password.getPassword().equals("")) {

JOptionPane.showMessageDialog(null, "请输入","提示",JOptionPane.ERROR\_MESSAGE);

} else {

Connection conn;

Statement stat;

ResultSet rs;

try {

//数据库连接

Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");

conn = DriverManager.getConnection("jdbc:sqlserver://localhost:1433;DatabaseName=car", "sa", "512512");

stat = conn.createStatement();

rs = stat.executeQuery("select \* from ManagerInfo where Name=" + "'" + String.valueOf(tUser.getText()) + "' and Password=" + "'" + String.valueOf(password.getPassword()) + "'");

if (rs.next()) {

this.dispose();

new ManagerWindows();

rs.close();

JOptionPane.showMessageDialog(null, " 欢迎登陆系统!", "提示", JOptionPane.INFORMATION\_MESSAGE);

} else

JOptionPane.showMessageDialog(null, "用户或密码错误", "提示", JOptionPane.ERROR\_MESSAGE);

} catch (Exception e) {

JOptionPane.showMessageDialog(null, "连接失败!", "提示", JOptionPane.ERROR\_MESSAGE);

}

}

}

//取消按钮

if (ae.getSource() == bCancel) {

this.dispose();

}

}

public static void main(String[] args) throws SQLException {

new car.ManagerLogin();

}

}

package car;

import java.awt.\*;

import javax.swing.\*;

import java.awt.event.\*;

/\*\*

\* Created by zhuxiaoyao on 2017/6/26.

\*/

public class ManagerWindows extends JFrame implements ActionListener{

private static final long serialVersionUID = 1L;

//定义

JButton b1,b2,b3,b4,b5,b6,b7,b8,b9;

public ManagerWindows(){

setTitle("Auto advance ticketing system");

Image img=Toolkit.getDefaultToolkit().getImage(car.ManagerWindows.class.getResource("1.png"));

setIconImage(img);

setSize(700,470);

setLocation(100,150);

JLabel label = new JLabel(new ImageIcon(car.ManagerWindows.class.getResource("ManagerBackground.jpg")));

label.setBounds(2,0,this.getWidth(), this.getHeight());

JPanel imagePanel = (JPanel) this.getContentPane();

imagePanel.setOpaque(false);

this.getLayeredPane().add(label,new Integer(Integer.MIN\_VALUE));

setLayout(null);// 必须要有 设置按键布局

setBounds(200,100,720,510); // 窗口位置 大小

Container c = getContentPane();

UIManager.put("Button.select",new Color(44, 162, 200)); //按钮按下后的颜色

b1 = new JButton("用户查询"); // 创建按钮

b2 = new JButton("用户添加");

b3 = new JButton("用户修改");

b4 = new JButton("用户删除");

b5 = new JButton("车次查询");

b6 = new JButton("车次添加");

b7 = new JButton("车次修改");

b8 = new JButton("车次删除");

b9 = new JButton("退出");

b1.setBounds(150, 120, 120, 40); // 设置按钮的位置与大小

b2.setBounds(150, 180, 120, 40);

b3.setBounds(150, 240, 120, 40);

b4.setBounds(150, 300, 120, 40);

b5.setBounds(430, 120, 120, 40);

b6.setBounds(430, 180, 120, 40);

b7.setBounds(430, 240, 120, 40);

b8.setBounds(430, 300, 120, 40);

b9.setBounds(290, 380, 120, 40);

b1.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

b1.setBackground(Color.white);

b2.setFont(new java.awt.Font("楷体", 1, 20));

b2.setBackground(Color.white);

b3.setFont(new java.awt.Font("楷体", 1, 20));

b3.setBackground(Color.white);

b4.setFont(new java.awt.Font("楷体", 1, 20));

b4.setBackground(Color.white);

b5.setFont(new java.awt.Font("楷体", 1, 20));

b5.setBackground(Color.white);

b6.setFont(new java.awt.Font("楷体", 1, 20));

b6.setBackground(Color.white);

b7.setFont(new java.awt.Font("楷体", 1, 20));

b7.setBackground(Color.white);

b8.setFont(new java.awt.Font("楷体", 1, 20));

b8.setBackground(Color.white);

b9.setFont(new java.awt.Font("楷体", 1, 20));

b9.setBackground(Color.white);

b1.setBorder(BorderFactory.createRaisedBevelBorder()); //设置按钮样式 凸

b2.setBorder(BorderFactory.createRaisedBevelBorder());

b3.setBorder(BorderFactory.createRaisedBevelBorder());

b4.setBorder(BorderFactory.createRaisedBevelBorder());

b5.setBorder(BorderFactory.createRaisedBevelBorder());

b6.setBorder(BorderFactory.createRaisedBevelBorder());

b7.setBorder(BorderFactory.createRaisedBevelBorder());

b8.setBorder(BorderFactory.createRaisedBevelBorder());

b9.setBorder(BorderFactory.createRaisedBevelBorder());

c.add(b1);

c.add(b2);

c.add(b3);

c.add(b4);

c.add(b5);

c.add(b6);

c.add(b7);

c.add(b8);

c.add(b9);

b1.addActionListener(this);//注册监听

b2.addActionListener(this);

b3.addActionListener(this);

b4.addActionListener(this);

b5.addActionListener(this);

b6.addActionListener(this);

b7.addActionListener(this);

b8.addActionListener(this);

b9.addActionListener(this);

setVisible(true);

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

}

public void actionPerformed(ActionEvent a){ // 按钮事件监听

if(a.getActionCommand().equals("用户查询")){

new QueryUser();

}

if(a.getActionCommand().equals("用户添加")){

new AddUser();

}

if(a.getActionCommand().equals("用户修改")){

new ReviseUser();

}

if(a.getActionCommand().equals("用户删除")){

new DeleteUser();

}

if(a.getActionCommand().equals("车次查询")){

new QueryTicket();

}

if(a.getActionCommand().equals("车次添加")){

new AddTicket();

}

if(a.getActionCommand().equals("车次修改")){

new ReviseTicket();

}

if(a.getActionCommand().equals("车次删除")){

new DeleteTicket();

}

if(a.getActionCommand()=="退出"){

System.exit(0);

}

}

public static void main(String[] args) {

new ManagerWindows();

}

}

package car;

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

/\*\*

\* Created by zhuxiaoyao on 2017/6/26.

\*/

public class PayWindows extends JFrame implements ActionListener {

private static final long serialVersionUID = 1L;

//定义

JButton b1,b2,b3,b4,b5;

public PayWindows(){

setTitle("Auto advance ticketing system");

Image img=Toolkit.getDefaultToolkit().getImage(car.PayWindows.class.getResource("1.png"));

setIconImage(img);

setSize(700,470);

setLocation(100,150);

JLabel label = new JLabel(new ImageIcon(car.PayWindows.class.getResource("PayBackground.jpg")));

label.setBounds(2,0,this.getWidth(), this.getHeight());

JPanel imagePanel = (JPanel) this.getContentPane();

imagePanel.setOpaque(false);

this.getLayeredPane().add(label,new Integer(Integer.MIN\_VALUE));

setLayout(null);// 必须要有 设置按键布局

setBounds(400,200,720,510); // 窗口位置 大小

Container c = getContentPane();

UIManager.put("Button.select",new Color(44, 162, 200)); //按钮按下后的颜色

b1 = new JButton("确认付款"); // 创建按钮

b2 = new JButton("取消付款");

b1.setBounds(290, 180, 120, 60); // 设置按钮的位置与大小

b2.setBounds(290, 280, 120, 60);

b1.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

b1.setBackground(Color.white);

b2.setFont(new java.awt.Font("楷体", 1, 20));

b2.setBackground(Color.white);

b1.setBorder(BorderFactory.createRaisedBevelBorder()); //设置按钮样式 凸

b2.setBorder(BorderFactory.createRaisedBevelBorder());

c.add(b1);

c.add(b2);

b1.addActionListener(this);//注册监听

b2.addActionListener(this);

setVisible(true);

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

}

public void actionPerformed(ActionEvent a){ // 按钮事件监听

if(a.getActionCommand()=="确认付款"){

dispose();

}

if(a.getActionCommand()=="取消付款"){

dispose();

}

}

public static void main(String[] args) {

new PayWindows();

}

}

package car;

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.Statement;

/\*\*

\* Created by zhuxiaoyao on 2017/6/27. 查询已购车票 user

\*/

public class QuerPurchasedTicket extends JFrame implements ActionListener

{

private static final long serialVersionUID = 1L;

ButtonGroup changle;

JLabel lName;

JTextField tName;

JButton bBack,bSearch;

JPanel panel;

JTable table;

Container container;

Object a[][];

Object colname[]={"车次编号","座位号","起点站","终点站","票价","发车时间","用户名","车票编号"};

public QuerPurchasedTicket()

{

super("查询已购车票");

Image img=Toolkit.getDefaultToolkit().getImage(car.QuerPurchasedTicket.class.getResource("1.png"));

setIconImage(img);

a=new Object[50][8];

table=new JTable(a,colname);

setSize(50,50);

setVisible(true);

lName=new JLabel("输入用户名：");

tName=new JTextField(15);

bBack=new JButton("返回");

bBack.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

bBack.setBackground(Color.white);

bBack.setBorder(BorderFactory.createRaisedBevelBorder());

bBack.addActionListener(this);

bSearch=new JButton("查找");

bSearch.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

bSearch.setBackground(Color.white);

bSearch.setBorder(BorderFactory.createRaisedBevelBorder());

bSearch.addActionListener(this);

changle=new ButtonGroup();

panel=new JPanel();

panel.add(lName);

panel.add(tName);

panel.add(bSearch);

panel.add(bBack);

container=getContentPane();

container.add(panel,BorderLayout.SOUTH);

container.add(new JScrollPane(table),BorderLayout.CENTER);

setBounds(400,200,600,400);

}

public void actionPerformed(ActionEvent ae){

if(ae.getSource()==bBack){

dispose();

}

else

if(ae.getSource()==bSearch){

if(tName.getText().equals("")){

JOptionPane.showMessageDialog(null,"请输用户名!","提示",JOptionPane.INFORMATION\_MESSAGE);

}

else{

int i=0;

Connection conn;

Statement stat;

ResultSet rst;

try{

int n=0;

Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");

conn= DriverManager.getConnection("jdbc:sqlserver://localhost:1433;DatabaseName=car","sa","512512");

stat=conn.createStatement();

rst=stat.executeQuery("select TrainNumber,SetNumber,OriginStation,TerminalStation,TicketPrice,DepartureTime,UserName,IDNumber from TicketInfo "

+ "where UserName="+"'"+tName.getText()+"'");

while(rst.next()){

a[i][0]=rst.getString("TrainNumber");

a[i][1]=rst.getString("SetNumber");

a[i][2]=rst.getString("OriginStation");

a[i][3]=rst.getString("TerminalStation");

a[i][4]=rst.getString("TicketPrice");

a[i][5]=rst.getString("DepartureTime");

a[i][6]=rst.getString("UserName");

a[i][7]=rst.getString("IDNumber");

i++;n++;

this.setVisible(false);

this.setVisible(true);

}

if(n==0)

JOptionPane.showMessageDialog(null,"Sorry没有用户信息!","提示",JOptionPane.ERROR\_MESSAGE);

}

catch(Exception e){

JOptionPane.showMessageDialog(null,"连接失败!","提示",JOptionPane.ERROR\_MESSAGE);

}

}

}

}

public static void main(String[] args) {

new car.QuerPurchasedTicket();

}

}

package car;

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.\*;

import java.sql.\*;

/\*\*

\* Created by zhuxiaoyao on 2017/6/27. 按起点站或终点站查 user

\*/

public class QuerTrain extends JFrame implements ActionListener

{

private static final long serialVersionUID = 1L;

JRadioButton jrbOrigin,jrbTerminus;

ButtonGroup changle;

JLabel lName;

JTextField tName;

JButton bBack,bSearch;

JPanel panel;

JTable table;

Container container;

Object a[][];

Object colname[]={"车次编号","起点站","终点站","票价","发车时间","剩余座位数","总座位数"};

public QuerTrain()

{

super("按起点站或终点站查");

Image img=Toolkit.getDefaultToolkit().getImage(car.QuerTrain.class.getResource("1.png"));

setIconImage(img);

a=new Object[50][7];

table=new JTable(a,colname);

setSize(50,50);

setVisible(true);

lName=new JLabel("输入站名：");

tName=new JTextField(8);

jrbOrigin=new JRadioButton("按起点站查找");

jrbOrigin.addActionListener(this);

jrbTerminus=new JRadioButton("按终点站查找");

jrbTerminus.addActionListener(this);

bBack=new JButton("返回");

bBack.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

bBack.setBackground(Color.white);

bBack.setBorder(BorderFactory.createRaisedBevelBorder());

bBack.addActionListener(this);

bSearch=new JButton("查找");

bSearch.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

bSearch.setBackground(Color.white);

bSearch.setBorder(BorderFactory.createRaisedBevelBorder());

bSearch.addActionListener(this);

changle=new ButtonGroup();

changle.add(jrbOrigin);

changle.add(jrbTerminus);

panel=new JPanel();

panel.add(lName);

panel.add(tName);

panel.add(jrbOrigin);

panel.add(jrbTerminus);

panel.add(bSearch);

panel.add(bBack);

container=getContentPane();

container.add(panel,BorderLayout.SOUTH);

container.add(new JScrollPane(table),BorderLayout.CENTER);

setBounds(400,200,600,400);

}

public void actionPerformed(ActionEvent ae){

if(ae.getSource()==bBack){

dispose();

}

else if(ae.getSource()==bSearch && jrbOrigin.isSelected()){

if(tName.getText().equals("")){

JOptionPane.showMessageDialog(null,"请输入站点名!","提示",JOptionPane.INFORMATION\_MESSAGE);

}

else{

int i=0;

Connection conn;

Statement stat;

ResultSet rst;

try{

int n=0;

Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");

conn=DriverManager.getConnection("jdbc:sqlserver://localhost:1433;DatabaseName=car","sa","512512");

stat=conn.createStatement();

rst=stat.executeQuery("select TrainNumber,OriginStation,TerminalStation,TicketPrice,DepartureTime,TicketsLeft,TicketAll from TrainNumberTable " +

"where OriginStation="+"'"+tName.getText()+"'");

while (rst.next()){

a[i][0]=rst.getString("TrainNumber");

a[i][1]=rst.getString("OriginStation");

a[i][2]=rst.getString("TerminalStation");

a[i][3]=rst.getString("TicketPrice");

a[i][4]=rst.getString("DepartureTime");

a[i][5]=rst.getString("TicketsLeft");

a[i][6]=rst.getString("TicketAll");

n++;

this.setVisible(false);

this.setVisible(true);

i++;

}

if(n==0)

JOptionPane.showMessageDialog(null,"Sorry没有此信息!","提示",JOptionPane.ERROR\_MESSAGE);

}

catch(Exception e){

JOptionPane.showMessageDialog(null,"连接失败!","提示",JOptionPane.ERROR\_MESSAGE);

}

}

}

else if(ae.getSource()==bSearch && jrbTerminus.isSelected()){

int i=0;

Connection conn;

Statement stat;

ResultSet rs;

try{

int n=0;

Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");

conn=DriverManager.getConnection("jdbc:sqlserver://localhost:1433;DatabaseName=car","sa","512512");

stat=conn.createStatement();

rs=stat.executeQuery("select TrainNumber,OriginStation,TerminalStation,TicketPrice,DepartureTime,TicketsLeft,TicketAll from TrainNumberTable " +

"where TerminalStation="+"'"+tName.getText()+"'");

while(rs.next()){

n++;

a[i][0]=rs.getString("TrainNumber");

a[i][1]=rs.getString("OriginStation");

a[i][2]=rs.getString("TerminalStation");

a[i][3]=rs.getString("TicketPrice");

a[i][4]=rs.getString("DepartureTime");

a[i][5]=rs.getString("TicketsLeft");

a[i][6]=rs.getString("TicketAll");

i++;

this.setVisible(false);

this.setVisible(true);

}

if(n==0)

JOptionPane.showMessageDialog(null,"抱歉没有此信息!","提示",JOptionPane.ERROR\_MESSAGE);

}

catch(Exception e){

JOptionPane.showMessageDialog(null,"连接失败!","提示",JOptionPane.ERROR\_MESSAGE);

}

}

}

public static void main(String[] args) {

new QuerTrain();

}

}

package car;

import javax.swing.\*;

import java.awt.event.\*;

import java.awt.\*;

import java.sql.\*;

/\*\*

\* Created by zhuxiaoyao on 2017/6/27. 查询车次

\*/

public class QueryTicket extends JFrame implements ActionListener{

private static final long serialVersionUID = 1L;

Object a[][];

Object colname[]={"车次编号","起点站","终点站","票价","发车时间","剩余座位数","总座位数"};

JTable table;

JButton bBack,bSearch;

Container container;

JPanel panel1;

public QueryTicket(){

setTitle("查询车次");

Image img=Toolkit.getDefaultToolkit().getImage(car.QueryTicket.class.getResource("1.png"));

setIconImage(img);

a=new Object[100][7];

table=new JTable(a,colname);

bBack=new JButton("返回");

bBack.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

bBack.setBackground(Color.white);

bBack.setBorder(BorderFactory.createRaisedBevelBorder());

bBack.addActionListener(this);

bSearch=new JButton("查找");

bSearch.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

bSearch.setBackground(Color.white);

bSearch.setBorder(BorderFactory.createRaisedBevelBorder());

bSearch.addActionListener(this);

panel1=new JPanel();

panel1.add(bSearch);

panel1.add(bBack);

container=getContentPane();

container.add(panel1,BorderLayout.SOUTH);

container.add(new JScrollPane(table),BorderLayout.CENTER);

setBounds(380,200,700,400);

setVisible(true);

}

public void actionPerformed(ActionEvent ae){

if(ae.getSource()==bBack){

dispose();

}

else if(ae.getSource()==bSearch){

Connection conn;

Statement stat;

ResultSet rs;

try{

int i=0,n;

Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");

conn=DriverManager.getConnection("jdbc:sqlserver://localhost:1433;DatabaseName=car","sa","512512");

stat=conn.createStatement();

rs=stat.executeQuery("select distinct TrainNumber,OriginStation,TerminalStation,TicketPrice,DepartureTime,TicketsLeft,TicketAll from TrainNumberTable");

n=0;

while(rs.next()){

a[i][0]=rs.getString("TrainNumber");

a[i][1]=rs.getString("OriginStation");

a[i][2]=rs.getString("TerminalStation");

a[i][3]=rs.getString("TicketPrice");

a[i][4]=rs.getString("DepartureTime");

a[i][5]=rs.getString("TicketsLeft");

a[i][6]=rs.getString("TicketsLeft");

i++;

this.setVisible(false);

n++;

this.setVisible(true);

}

if(n==0)

JOptionPane.showMessageDialog(null,"抱歉没有车票信息!","提示",JOptionPane.ERROR\_MESSAGE);

}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,"连接数据库失败!","提示",JOptionPane.ERROR\_MESSAGE);

}

}

}

public static void main(String[] args) {

new QueryTicket();

}

}

package car;

import javax.swing.\*;

import java.awt.event.\*;

import java.awt.\*;

import java.sql.\*;

/\*\*

\* Created by zhuxiaoyao on 2017/6/27.

\*/

public class QueryUser extends JFrame implements ActionListener{

private static final long serialVersionUID = 1L;

Object a[][];

Object colname[]={"编号","姓名","身份证号","手机号"};

JTable table;

JButton bBack,bSearch;

Container container;

JPanel panel1;

public QueryUser(){

setTitle("查所用户");

Image img=Toolkit.getDefaultToolkit().getImage(car.QueryUser.class.getResource("1.png"));

setIconImage(img);

a=new Object[100][4];

table=new JTable(a,colname);

bBack=new JButton("返回");

bBack.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

bBack.setBackground(Color.white);

bBack.setBorder(BorderFactory.createRaisedBevelBorder());

bBack.addActionListener(this);

bSearch=new JButton("查找");

bSearch.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

bSearch.setBackground(Color.white);

bSearch.setBorder(BorderFactory.createRaisedBevelBorder());

bSearch.addActionListener(this);

panel1=new JPanel();

panel1.add(bBack);

panel1.add(bSearch);

container=getContentPane();

container.add(panel1,BorderLayout.SOUTH);

container.add(new JScrollPane(table),BorderLayout.CENTER);

setBounds(380,200,500,400);

setVisible(true);

}

public void actionPerformed(ActionEvent ae){

if(ae.getSource()==bBack){

dispose();

}

else if(ae.getSource()==bSearch){

Connection conn;

Statement stat;

ResultSet rs;

try{

int i=0;

Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");

conn=DriverManager.getConnection("jdbc:sqlserver://localhost:1433;DatabaseName=car","sa","512512");

stat=conn.createStatement();

rs=stat.executeQuery("select distinct IDnumbered,NAME,IDcard,Mobile from UserInfo");

while(rs.next()){

a[i][0]=rs.getString("IDnumbered");

a[i][1]=rs.getString("NAME");

a[i][2]=rs.getString("IDcard");

a[i][3]=rs.getString("Mobile");

i++;

this.setVisible(false);

this.setVisible(true);

}

}

catch(Exception e)

{

JOptionPane.showMessageDialog(null,"连接失败!","提示",JOptionPane.ERROR\_MESSAGE);

}

}

}

public static void main(String[] args) {

new QueryUser();

}

}

package car;

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.sql.\*;

/\*\*

\* Created by zhuxiaoyao on 2017/6/27. 退票 删除用户选择的票号 退票后座位数+1

\*/

public class RefundTicket extends JFrame implements ActionListener {

//删除 通过

private static final long serialVersionUID = 1L;

JLabel lNO,lbTitle;

JTextField tNO;

JButton bDelete,bBack;

JPanel panelMain,panel11,panel1,panel2,panel3,panel4;

public RefundTicket(){

super("车票退订");

Image img=Toolkit.getDefaultToolkit().getImage(car.RefundTicket.class.getResource("1.png"));

setIconImage(img);

UIManager.put("Button.select",new Color(100,200,100));

setLayout(null);

panelMain=new JPanel();

this.setContentPane(panelMain);

panel11 = new JPanel();

lbTitle = new JLabel(new ImageIcon(car.DeleteTicket.class.getResource("UserLogin.jpg")));

panel11.add(lbTitle);

panel1=new JPanel();

panel2=new JPanel();

lNO=new JLabel("车票编号:");

tNO=new JTextField(6);

panel1.add(lNO);

panel2.add(tNO);

panel3=new JPanel();

bDelete=new JButton("退订");

bDelete.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

bDelete.setBackground(Color.white);

bDelete.setBorder(BorderFactory.createRaisedBevelBorder());

panel4=new JPanel();

bBack=new JButton("返回");

bBack.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

bBack.setBackground(Color.white);

bBack.setBorder(BorderFactory.createRaisedBevelBorder());

panel3.add(bDelete);

panel4.add(bBack);

panelMain.add(panel11);

panelMain.add(panel1);

panelMain.add(panel2);

panelMain.add(panel3);

panelMain.add(panel4);

setBounds(500,300,430,340);

bDelete.addActionListener(this);

bBack.addActionListener(this);

setVisible(true);

setResizable(true);

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

}

public void actionPerformed(ActionEvent ae){

if(ae.getActionCommand()=="返回"){

this.dispose();

}

else if(ae.getActionCommand()=="退订"){

int x,v;

Connection con;

Statement stat,stat1,stat2,stat3;

ResultSet rst,rs1,rs2;

try{

Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");

con= DriverManager.getConnection("jdbc:sqlserver://localhost:1433;DatabaseName=car","sa","512512");

stat1=con.createStatement();

rs1=stat1.executeQuery("select TrainNumber from TicketInfo "

+ "where IDNumber="+"'"+tNO.getText()+"'");

System.out.println(rs1.next());

String strtrainnumber=rs1.getString("TrainNumber");

stat2=con.createStatement();

rs2=stat2.executeQuery("select TicketsLeft from TrainNumberTable "

+ "where TrainNumber ="+"'"+strtrainnumber+"'");

System.out.println(rs2.next());

int strTicketsLeft=rs2.getInt("TicketsLeft");

strTicketsLeft=strTicketsLeft+1;

String b1 = "'" + strTicketsLeft + "'";

stat3=con.createStatement();

String up = "update TrainNumberTable SET TicketsLeft =" + b1 + " WHERE TrainNumber=" + "'" + strtrainnumber + "'";

x = stat3.executeUpdate(up);

System.out.println("更新：" + x);

String c="delete from TicketInfo where IDNumber="+"'"+tNO.getText()+"'"+"";

stat=con.createStatement();

v=stat.executeUpdate(c);

if (v<1||x<1)

JOptionPane.showMessageDialog(null,"退订车票失败!","提示",JOptionPane.ERROR\_MESSAGE);

else

JOptionPane.showMessageDialog(null,"退订车票成功!退款稍后到达您账户","提示",JOptionPane.INFORMATION\_MESSAGE);

}

catch(Exception e){

e.printStackTrace();

}

}

}

public static void main(String[] args) {

new car.RefundTicket();

}

}

package car;

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.sql.\*;

/\*\*

\* Created by zhuxiaoyao on 2017/6/27. 订票 订票后 座位数 -1 IDnumber（车票编号=用户编号+车次编号）

\*/

public class ReserveTicket extends JFrame implements ActionListener

{

private static final long serialVersionUID = 1L;

ButtonGroup changle;

JLabel lName,lUser;

JTextField tName,tUser;

JButton bBack,bSearch;

JPanel panel;

JTable table;

Container container;

Object a[][];

Object colname[]={"车次编号","座位号","起点站","终点站","票价","发车时间","用户名","车票编号"};

public ReserveTicket () {

super("定购车票");

Image img=Toolkit.getDefaultToolkit().getImage(car.QuerPurchasedTicket.class.getResource("1.png"));

setIconImage(img);

a=new Object[50][8];

table=new JTable(a,colname);

setSize(50,50);

setVisible(true);

lName=new JLabel("输入要购买的车次：");

tName=new JTextField(10);

lUser=new JLabel("输入用户名：");

tUser=new JTextField(10);

bBack=new JButton("返回");

bBack.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

bBack.setBackground(Color.white);

bBack.setBorder(BorderFactory.createRaisedBevelBorder());

bBack.addActionListener(this);

bSearch=new JButton("定购");

bSearch.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

bSearch.setBackground(Color.white);

bSearch.setBorder(BorderFactory.createRaisedBevelBorder());

bSearch.addActionListener(this);

changle=new ButtonGroup();

panel=new JPanel();

panel.add(lUser);

panel.add(tUser);

panel.add(lName);

panel.add(tName);

panel.add(bSearch);

panel.add(bBack);

container=getContentPane();

container.add(panel,BorderLayout.SOUTH);

container.add(new JScrollPane(table),BorderLayout.CENTER);

setBounds(400,200,720,400);

}

public void actionPerformed(ActionEvent ae){

if(ae.getSource()==bBack){

dispose();

}

else

if(ae.getSource()==bSearch){

if(tName.getText().equals("")||tUser.getText().equals("")){

JOptionPane.showMessageDialog(null,"请入车次编号/用户名","提示",JOptionPane.INFORMATION\_MESSAGE);

}

else{

int i,z,x;

Connection conn;

Statement stat,stat1,stat2,stat3,stat4;

ResultSet rst,rs1,rs2;

try{

Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");

conn= DriverManager.getConnection("jdbc:sqlserver://localhost:1433;DatabaseName=car","sa","512512");

System.out.println("已经连接到数据库...");

stat=conn.createStatement();

stat1=conn.createStatement();

stat2=conn.createStatement();

stat3=conn.createStatement();

stat4=conn.createStatement();

rs1=stat1.executeQuery("select IDnumbered,Name from UserInfo "

+ "where Name="+"'"+tUser.getText()+"'");

// System.out.println("已经连接UserInfo...");

System.out.println(rs1.next());

String strIDnumbered=rs1.getString("IDnumbered");

String strName=rs1.getString("Name");

// System.out.println("ID:"+ strIDnumbered);

// System.out.println("Name："+ strName);

String strTrainNumber=tName.getText();

String strIDNumber=strIDnumbered+strTrainNumber;

// System.out.println("IDNumber："+ strIDNumber); //计算车票号

rs2=stat2.executeQuery("select OriginStation,TerminalStation,TicketPrice,DepartureTime,TicketsLeft,TicketAll from TrainNumberTable "

+ "where TrainNumber="+"'"+tName.getText()+"'");

System.out.println("已经连接到TrainNumberTable...");

System.out.println(rs2.next());

int strTicketsLeft=rs2.getInt("TicketsLeft");

int strTicketAll=rs2.getInt("TicketAll");

// System.out.println("TicketsLeft:"+ strTicketsLeft);

// System.out.println("TicketAll："+ strTicketAll);

int strSetNumber=strTicketAll-strTicketsLeft;

// System.out.println("SetNumber："+strSetNumber);//计算座位号

String strOriginStation=rs2.getString("OriginStation");

String strTerminalStation=rs2.getString("TerminalStation");

String strTicketPrice=rs2.getString("TicketPrice");

String strDepartureTime=rs2.getString("DepartureTime");

// System.out.println("OriginStation: "+ strOriginStation);

// System.out.println("TerminalStation："+ strTerminalStation);

// System.out.println("TicketPrice: "+ strTicketPrice);

// System.out.println("DepartureTime: "+ strDepartureTime);

String b1;

strTicketsLeft=strTicketsLeft-1;

System.out.println("剩余车票："+ strTicketsLeft);

if(strTicketsLeft<1){

JOptionPane.showMessageDialog(null,"购买车票失败!","提示",JOptionPane.ERROR\_MESSAGE);

}else {

String a1,a2,a3,a4,a5,a6,a7,a8;

a1="'"+strTrainNumber+"'";

a2="'"+strSetNumber+"'";

a3="'"+strOriginStation+"'";

a4="'"+strTerminalStation+"'";

a5="'"+strTicketPrice+"'";

a6="'"+strDepartureTime+"'";

a7="'"+strName+"'";

a8="'"+strIDNumber+"'";

String ins ="insert into TicketInfo " + "VALUES ("+a1+","+a2+","+a3+","+a4+","+a5+","+a6+","+a7+","+a8+")";

System.out.println("正在向TicketInfo添加信息...");

z=stat3.executeUpdate(ins);

System.out.println("添加："+ z);

b1 = "'" + strTicketsLeft + "'";

String up = "update TrainNumberTable SET TicketsLeft =" + b1 + " WHERE TrainNumber=" + "'" + tName.getText() + "'";

x = stat4.executeUpdate(up);

System.out.println("更新：" + x); // 购票后 座位数 -1

rst=stat.executeQuery("select TrainNumber,SetNumber,OriginStation,TerminalStation,TicketPrice,DepartureTime,UserName,IDNumber from TicketInfo " +

"where IDNumber="+"'"+strIDNumber+"'");

System.out.println("已经添加到TicketInfo...");

i=0;

while(rst.next()){

a[i][0]=rst.getString("TrainNumber");

a[i][1]=rst.getString("SetNumber");

a[i][2]=rst.getString("OriginStation");

a[i][3]=rst.getString("TerminalStation");

a[i][4]=rst.getString("TicketPrice");

a[i][5]=rst.getString("DepartureTime");

a[i][6]=rst.getString("UserName");

a[i][7]=rst.getString("IDNumber");

i++;

this.setVisible(false);

this.setVisible(true);

}// 购票后 显示已购车票

new PayWindows();

}

}

catch(Exception e){

JOptionPane.showMessageDialog(null,"连接失败!","提示",JOptionPane.ERROR\_MESSAGE);

}

}

}

}

public static void main(String[] args) {

new ReserveTicket ();

}

}

package car;

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

/\*\*

\* Created by zhuxiaoyao on 2017/6/27. 车次修改

\*/

public class ReviseTicket extends JFrame implements ActionListener {

private static final long serialVersionUID = 1L;

JLabel lTrainNumber,lOriginStation,lTerminalStation,lTicketPrice,lDepartureTime,lTicketsLeft,llTicketsAll;

JTextField tTrainNumber,tOriginStation,tTerminalStation,tTicketPrice,tDepartureTime,tTicketsLeft,tTicketsAll;

JButton bAdd,bBack;

JPanel panelMain,panel1,panel2,panel3,panel4,panel5,panel6,panel7,panel8,panel9;

public ReviseTicket(){

super("车次修改");

Image img=Toolkit.getDefaultToolkit().getImage(car.AddTicket.class.getResource("1.png"));

setIconImage(img);

setBounds(200,100,400,450);// 窗口位置 大小

UIManager.put("Button.select",new Color(44, 162, 200)); //按钮按下后的颜色

panelMain=new JPanel();

JPanel panelMain=new JPanel(new GridLayout(9,1));

this.setContentPane(panelMain);

lTrainNumber=new JLabel("车 次 ： ");

lTrainNumber.setFont(new Font("楷体",0, 20));

lOriginStation=new JLabel("起 点 站： ");

lOriginStation.setFont(new Font("楷体",0, 20));

lTerminalStation=new JLabel("终 点 站： ");

lTerminalStation.setFont(new Font("楷体",0, 20));

lTicketPrice=new JLabel("票 价 ： ");

lTicketPrice.setFont(new Font("楷体",0, 20));

lDepartureTime=new JLabel("发车时间 : ");

lDepartureTime.setFont(new Font("楷体",0, 20));

lTicketsLeft=new JLabel("余 票 ： ");

lTicketsLeft.setFont(new Font("楷体",0, 20));

llTicketsAll=new JLabel("总 票 ： ");

llTicketsAll.setFont(new Font("楷体",0, 20));

tTrainNumber=new JTextField(10);

tOriginStation=new JTextField(10);

tTerminalStation=new JTextField(10);

tTicketPrice=new JTextField(10);

tDepartureTime=new JTextField(10);

tTicketsLeft=new JTextField(10);

tTicketsAll=new JTextField(10);

panel1=new JPanel();

panel1.add(lTrainNumber);panel1.add(tTrainNumber);

panel2=new JPanel();

panel2.add(lOriginStation);panel2.add(tOriginStation);

panel3=new JPanel();

panel3.add(lTerminalStation);panel3.add(tTerminalStation);

panel4=new JPanel();

panel4.add(lTicketPrice);panel4.add(tTicketPrice);

panel5=new JPanel();

panel5.add(lDepartureTime);panel5.add(tDepartureTime);

panel6=new JPanel();

panel6.add(lTicketsLeft);panel6.add(tTicketsLeft);

panel7=new JPanel();

panel7.add(llTicketsAll);panel7.add(tTicketsAll);

bAdd=new JButton("修改");

bAdd.setFont(new java.awt.Font("楷体", 0, 20));// 设置按钮的字体大小 颜按钮色

bAdd.setBackground(new Color(255, 255, 255));

bAdd.setBorder(BorderFactory.createRaisedBevelBorder());

bAdd.addActionListener(this);

bBack=new JButton("返回");

bBack.setFont(new java.awt.Font("楷体", 0, 20));// 设置按钮的字体大小 颜按钮色

bBack.setBackground(new Color(255, 255, 255));

bBack.setBorder(BorderFactory.createRaisedBevelBorder());

bBack.addActionListener(this);

panel8=new JPanel();

panel8.add(bAdd);

panel9=new JPanel();

panel9.add(bBack);

panelMain.add(panel1);

panelMain.add(panel2);

panelMain.add(panel3);

panelMain.add(panel4);

panelMain.add(panel5);

panelMain.add(panel6);

panelMain.add(panel7);

panelMain.add(panel8);

panelMain.add(panel9);

setVisible(true);

}

public void actionPerformed(ActionEvent ae){

if(ae.getSource()==bBack){

dispose();

}

else if(ae.getSource()==bAdd){

if(tTrainNumber.getText().equals("") || tOriginStation.getText().equals("") || tTerminalStation.getText().equals("")||tTicketPrice.getText().equals("")||tDepartureTime.getText().equals("")||tTicketsLeft.getText().equals("")||tTicketsAll.getText().equals("")){

JOptionPane.showMessageDialog(null,"修改信息不能为空!","提示",JOptionPane.ERROR\_MESSAGE);

}

else{

String a1,a2,a3,a4,a5,a6,a7;

int z,x;

a1="'"+tTrainNumber.getText().trim()+"'";

a2="'"+tOriginStation.getText().trim()+"'";

a3="'"+tTerminalStation.getText().trim()+"'";

a4="'"+tTicketPrice.getText().trim()+"'";

a5="'"+tDepartureTime.getText().trim()+"'";

a6="'"+tTicketsLeft.getText().trim()+"'";

a7="'"+tTicketsAll.getText().trim()+"'";

String b="delete from TrainNumberTable where TrainNumber="+"'"+tTrainNumber.getText()+"'"+"";

String d="insert into TrainNumberTable (TrainNumber,OriginStation,TerminalStation,TicketPrice,DepartureTime,TicketsLeft,TicketAll) VALUES ("+a1+","+a2+","+a3+","+a4+","+a5+","+a6+","+a7+")";

Connection conn1;

PreparedStatement stat1,stat2;

try{

Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");

conn1=DriverManager.getConnection("jdbc:sqlserver://localhost:1433;DatabaseName=car","sa","512512");

stat1=conn1.prepareStatement(b);

z=stat1.executeUpdate();

stat2=conn1.prepareStatement(d);

x=stat2.executeUpdate();

if(z<1||x<1){

JOptionPane.showMessageDialog(null,"修改车次失败!","提示",JOptionPane.ERROR\_MESSAGE);

}

else{

JOptionPane.showMessageDialog(null,"修改车次成功!","提示",JOptionPane.INFORMATION\_MESSAGE);

}

conn1.close();

}

catch(Exception e){

e.printStackTrace();

}

}

}

}

public static void main(String[] args) {

new ReviseTicket();

}

}

package car;

import javax.swing.\*;

import java.awt.\*;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

/\*\*

\* Created by zhuxiaoyao on 2017/6/27. 用户修改

\*/

public class ReviseUser extends JFrame implements ActionListener {

private static final long serialVersionUID = 1L;

JLabel lNo,lName,lId,lPassword,lMobile;

JTextField tNo,tName,tId,tPassword,tMobile;

JButton bAdd,bBack;

JPanel panelMain,panel1,panel2,panel3,panel4,panel5,panel6,panel7;

public ReviseUser(){

super("ReviseUser");

Image img=Toolkit.getDefaultToolkit().getImage(car.AddUser.class.getResource("1.png"));

setIconImage(img);

setBounds(200,100,400,400);// 窗口位置 大小

UIManager.put("Button.select",new Color(44, 162, 200)); //按钮按下后的颜色

panelMain=new JPanel();

JPanel panelMain=new JPanel(new GridLayout(7,1));

this.setContentPane(panelMain);

lNo=new JLabel("编 号：");

lNo.setFont(new Font("楷体",0, 20));

lName=new JLabel("姓 名：");

lName.setFont(new Font("楷体",0, 20));

lPassword=new JLabel("密 码：");

lPassword.setFont(new Font("楷体",0, 20));

lId=new JLabel("身 份 证 号 ：");

lId.setFont(new Font("楷体",0, 20));

lMobile=new JLabel("手 机 号: ");

lMobile.setFont(new Font("楷体",0, 20));

tNo=new JTextField(10);

tName=new JTextField(10);

tId=new JTextField(10);

tPassword=new JTextField(10);

tMobile=new JTextField(10);

panel1=new JPanel();

panel1.add(lNo);panel1.add(tNo);

panel2=new JPanel();

panel2.add(lName);panel2.add(tName);

panel3=new JPanel();

panel3.add(lPassword);panel3.add(tPassword);

panel4=new JPanel();

panel4.add(lId);panel4.add(tId);

panel5=new JPanel();

panel5.add(lMobile);panel5.add(tMobile);

bAdd=new JButton("修改");

bAdd.setFont(new java.awt.Font("楷体", 0, 20));// 设置按钮的字体大小 颜按钮色

bAdd.setBackground(new Color(255, 255, 255));

bAdd.setBorder(BorderFactory.createRaisedBevelBorder());

bAdd.addActionListener(this);

bBack=new JButton("返回");

bBack.setFont(new java.awt.Font("楷体", 0, 20));// 设置按钮的字体大小 颜按钮色

bBack.setBackground(new Color(255, 255, 255));

bBack.setBorder(BorderFactory.createRaisedBevelBorder());

bBack.addActionListener(this);

panel6=new JPanel();

panel6.add(bAdd);

panel7=new JPanel();

panel7.add(bBack);

panelMain.add(panel1);

panelMain.add(panel2);

panelMain.add(panel3);

panelMain.add(panel4);

panelMain.add(panel5);

panelMain.add(panel6);

panelMain.add(panel7);

setVisible(true);

}

public void actionPerformed(ActionEvent ae){

if(ae.getSource()==bBack){

dispose();

}

else if(ae.getSource()==bAdd){

if(tNo.getText().equals("") || tName.getText().equals("")||tId.getText().equals("")||tPassword.getText().equals("")||tMobile.getText().equals("")){

JOptionPane.showMessageDialog(null,"修改信息不能为空!","提示",JOptionPane.ERROR\_MESSAGE);

}

else{

String a1,a2,a3,a4,a5,a6="";

char temp = 0;

int r,z,i;

a1="'"+tNo.getText().trim()+"'";

a2="'"+tName.getText().trim()+"'";

a3=tPassword.getText().trim();

a4="'"+tId.getText().trim()+"'";

a5="'"+tMobile.getText().trim()+"'";

for(i=1;i<a3.length();i++) {

if((a3.charAt(i-1) > 32 && a3.charAt(i-1) < 107) )

temp=(char) (a3.charAt(i-1) + 20);

else if((a3.charAt(i-1) > 106 && a3.charAt(i-1) < 127))

temp=(char) (a3.charAt(i-1) -74 );

a6+=temp;

}

a6="'"+a6+"'";// 密码的加密

String d="delete from UserInfo where IDnumbered="+"'"+tNo.getText()+"'"+"";

String b="insert into UserInfo(IDnumbered,Name,Password,IDcard,Mobile) VALUES ("+a1+","+a2+","+a6+","+a4+","+a5+")";

Connection conn;

PreparedStatement stat1,stat2;

try{

Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");

conn=DriverManager.getConnection("jdbc:sqlserver://localhost:1433;DatabaseName=car","sa","512512");

stat1=conn.prepareStatement(d);

r=stat1.executeUpdate();

stat2=conn.prepareStatement(b);

z=stat2.executeUpdate();

if(r<1||z<1){

JOptionPane.showMessageDialog(null,"修改用户失败!","提示",JOptionPane.ERROR\_MESSAGE);

}

else{

JOptionPane.showMessageDialog(null,"修改用户成功!","提示",JOptionPane.INFORMATION\_MESSAGE);

}

conn.close();

}

catch(Exception e){

e.printStackTrace();

}

}

}

}

public static void main(String[] args) {

new ReviseUser();

}

}

package car;

/\*\*

\* Created by zhuxiaoyao on 2017/6/25.

\*/

import javax.swing.\*;

import java.awt.Color;

import java.awt.Image;

import java.awt.Toolkit;

import java.awt.event.\*;

import java.sql.\*;

public class UserLogin extends JFrame implements ActionListener {

// 登录

private static final long serialVersionUID = 1L;

//定义

JLabel lbUser, lbPass, lbTitle;

JTextField tUser;

JPasswordField password;

JButton bLogin, bCancel;

JPanel panelMain, panel1, panel2, panel3, panel4;

public UserLogin() {

//主面板

super("Login User");

Image img = Toolkit.getDefaultToolkit().getImage(car.UserLogin.class.getResource("1.png"));

setIconImage(img);

UIManager.put("Button.select", new Color(100, 200, 100));

setLayout(null);

panelMain = new JPanel();

this.setContentPane(panelMain);

//标题

panel1 = new JPanel();

lbTitle = new JLabel(new ImageIcon(car.UserLogin.class.getResource("UserLogin.jpg")));

panel1.add(lbTitle);

//用户名

panel2 = new JPanel();

lbUser = new JLabel("用 户 名:");

tUser = new JTextField(12);

panel2.add(lbUser);

panel2.add(tUser);

//密码

panel3 = new JPanel();

lbPass = new JLabel("密 码 : ");

password = new JPasswordField(12);

panel3.add(lbPass);

panel3.add(password);

//按钮

panel4 = new JPanel();

bLogin = new JButton("登 陆");

bLogin.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

bLogin.setBackground(Color.white);

bLogin.setBorder(BorderFactory.createRaisedBevelBorder());

bLogin.addActionListener(this);

bCancel = new JButton("取 消");

bCancel.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

bCancel.setBackground(Color.white);

bCancel.setBorder(BorderFactory.createRaisedBevelBorder());

bCancel.addActionListener(this);

bLogin.setBounds(50, 50, 10, 50);

bCancel.setBounds(50, 50, 50, 50);

panel4.add(bLogin);

panel4.add(bCancel);

//子面板添加

panelMain.add(panel1);

panelMain.add(panel2);

panelMain.add(panel3);

panelMain.add(panel4);

//窗体属性

setBounds(400, 250, 430, 400);

setVisible(true);

setResizable(true);

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

}

//按钮事件

public void actionPerformed(ActionEvent ae) {

//登陆按钮

if (ae.getSource() == bLogin) {

if (tUser.getText().equals("") || password.getPassword().equals("")) {

JOptionPane.showMessageDialog(null, "请输入","提示",JOptionPane.ERROR\_MESSAGE);

} else {

Connection conn;

Statement stat;

ResultSet rs;

String pwd,mima="";

char temp = 0;

pwd=String.valueOf(password.getPassword());

for(int k=0;k<pwd.length();k++) {

if((pwd.charAt(k) > 32 && pwd.charAt(k) < 107))

temp=(char) (pwd.charAt(k) + 20);

else if((pwd.charAt(k) > 106 && pwd.charAt(k) < 127))

temp=(char) (pwd.charAt(k) - 74);

mima+=temp;

}// 密码的加密

try {

//数据库连接

Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");

conn = DriverManager.getConnection("jdbc:sqlserver://localhost:1433;DatabaseName=car", "sa", "512512");

stat = conn.createStatement();

rs = stat.executeQuery("select \* from UserInfo where Name=" + "'" + tUser.getText() + "' and Password=" + "'" + mima + "'");

if (rs.next()) {

this.dispose();

new UserWindows();

rs.close();

JOptionPane.showMessageDialog(null, "欢迎登陆系统!", "提示", JOptionPane.INFORMATION\_MESSAGE);

} else

JOptionPane.showMessageDialog(null, "用户或密码错误", "提示", JOptionPane.ERROR\_MESSAGE);

} catch (Exception e) {

JOptionPane.showMessageDialog(null, "连接失败!", "提示", JOptionPane.ERROR\_MESSAGE);

}

}

}

//取消按钮

if (ae.getSource() == bCancel) {

this.dispose();

}

}

public static void main(String[] args) throws SQLException {

new UserLogin();

}

}

package car;

import java.awt.\*;

import javax.swing.\*;

import java.awt.event.\*;

/\*\*

\* Created by zhuxiaoyao on 2017/6/26.

\*/

public class UserWindows extends JFrame implements ActionListener{

private static final long serialVersionUID = 1L;

//定义

JButton b1,b2,b3,b4,b5;

public UserWindows(){

setTitle("Auto advance ticketing system");

Image img=Toolkit.getDefaultToolkit().getImage(car.UserWindows.class.getResource("1.png"));

setIconImage(img);

setSize(700,470);

setLocation(100,150);

JLabel label = new JLabel(new ImageIcon(car.UserWindows.class.getResource("UserBackground.jpg")));

label.setBounds(2,0,this.getWidth(), this.getHeight());

JPanel imagePanel = (JPanel) this.getContentPane();

imagePanel.setOpaque(false);

this.getLayeredPane().add(label,new Integer(Integer.MIN\_VALUE));

setLayout(null);// 必须要有 设置按键布局

setBounds(200,100,720,510); // 窗口位置 大小

Container c = getContentPane();

UIManager.put("Button.select",new Color(44, 162, 200)); //按钮按下后的颜色

b1 = new JButton("查询车票"); // 创建按钮

b2 = new JButton("订票");

b3 = new JButton("查看已购车票");

b4 = new JButton("退票");

b5 = new JButton("退出");

b1.setBounds(290, 120, 150, 40); // 设置按钮的位置与大小

b2.setBounds(290, 180, 150, 40);

b3.setBounds(290, 240, 150, 40);

b4.setBounds(290, 300, 150, 40);

b5.setBounds(290, 360, 150, 40);

b1.setFont(new java.awt.Font("楷体", 1, 20));// 设置按钮的字体大小 颜按钮色

b1.setBackground(Color.white);

b2.setFont(new java.awt.Font("楷体", 1, 20));

b2.setBackground(Color.white);

b3.setFont(new java.awt.Font("楷体", 1, 20));

b3.setBackground(Color.white);

b4.setFont(new java.awt.Font("楷体", 1, 20));

b4.setBackground(Color.white);

b5.setFont(new java.awt.Font("楷体", 1, 20));

b5.setBackground(Color.white);

b1.setBorder(BorderFactory.createRaisedBevelBorder()); //设置按钮样式 凸

b2.setBorder(BorderFactory.createRaisedBevelBorder());

b3.setBorder(BorderFactory.createRaisedBevelBorder());

b4.setBorder(BorderFactory.createRaisedBevelBorder());

b5.setBorder(BorderFactory.createRaisedBevelBorder());

c.add(b1);

c.add(b2);

c.add(b3);

c.add(b4);

c.add(b5);

b1.addActionListener(this);//注册监听

b2.addActionListener(this);

b3.addActionListener(this);

b4.addActionListener(this);

b5.addActionListener(this);

setVisible(true);

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

}

public void actionPerformed(ActionEvent a){ // 按钮事件监听

if(a.getActionCommand().equals("查询车票")){

new QuerTrain();

}

if(a.getActionCommand().equals("订票")){

new ReserveTicket();

}

if(a.getActionCommand().equals("查看已购车票")){

new QuerPurchasedTicket();

}

if(a.getActionCommand().equals("退票")){

new RefundTicket();

}

if(a.getActionCommand()=="退出"){

System.exit(0);

}

}

public static void main(String[] args) {

new UserWindows();

}

}