

```
import javax.swing.JFrame;
import javax.swing.JButton;
import javax.swing.JLabel; //only component that is used to not collect data
import java.awt.BorderLayout;
import java.awt.GridLayout;
import javax.swing.JTextField;
import javax.swing.JTextArea;
import javax.swing.JPanel;
import javax.swing.JComboBox; //dropbox
import javax.swing.JCheckBox;
import javax.swing.JRadioButton;
import javax.swing.ButtonGroup;
import javax.swing.ImageIcon;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
import javax.swing.JOptionPane;
```

```
public class Hotel extends JFrame implements ActionListener{

    private JLabel firstName, lastName, checkIn, checkOut, roomLabel, guestLabel, rateLabel, roomType,
    commentLabel,

        street, city, zip, phone, billing, state, visaLabel, masterLabel, amexLabel, disLabel, cardNum, exp;

    private JTextField firstNameText, lastNameText, inText, outText, streetText, cityText, zipText,
    phoneText, cardText,

        expText;

    private JPanel north, south, west, center, east;

    private JButton submit, cancel;

    private JComboBox roomNum, guestNum, stateBox;

    private ButtonGroup sRate, cards;

    private JRadioButton none, aaa, senior, gov, visa, master, amex, discover;
```

```
private JCheckBox studio, family, standard, suite;

private JTextArea commentArea;

private ImageIcon visalcon, masterIcon, amexIcon, disIcon;

public Hotel() {

    super("Hotel Reservation System");


    //North Panel

    firstName = new JLabel("Enter First Name:");
    firstNameText = new JTextField(5);
    lastName = new JLabel("Enter Last Name:");
    lastNameText = new JTextField(5);
    north = new JPanel();
    north.add(firstName);
    north.add(firstNameText);
    north.add(lastName);
    north.add(lastNameText);
    add(north, BorderLayout.NORTH);


    //South Panel

    submit = new JButton("Submit" );
    submit.addActionListener(this);
    cancel = new JButton("Cancel");
    cancel.addActionListener(this);
    south = new JPanel();
    south.add(submit);
    south.add(cancel);
    add(south, BorderLayout.SOUTH);
```

```
//West Panel

checkIn = new JLabel("Check in Date (MM/DD/YY)");

inText = new JTextField(5);

checkOut = new JLabel("Check out Date (MM/DD/YY)");

outText = new JTextField(5);

////

roomLabel = new JLabel("No. of Rooms");

String roomList [] = {"1", "2", "3", "4-9", "10-25", "26+"};

roomNum = new JComboBox(roomList);

guestLabel = new JLabel("Guests/Rooms");

String guestList [] = {"1", "2", "3", "4", "5", "6"};

guestNum = new JComboBox(guestList);

////

rateLabel = new JLabel("SPECIAL RATES");

none = new JRadioButton("None");

aaa = new JRadioButton("AAA/CAA");

senior = new JRadioButton("Senior Discount");

gov = new JRadioButton("Government & Military");

sRate = new ButtonGroup();

sRate.add(none);

sRate.add(aaa);

sRate.add(senior);

sRate.add(gov);

////

roomType = new JLabel("Room Type");

studio = new JCheckBox("Studio");

standard = new JCheckBox("Standard");

family = new JCheckBox("Family");

suite = new JCheckBox("Suite");
```

```
////  
commentLabel = new JLabel ("Special Requests");  
commentArea = new JTextArea(5,10);  
////  
west = new JPanel();  
west.setLayout(new GridLayout(20,2));  
west.add(checkIn);  
west.add(inText);  
west.add(checkOut);  
west.add(outText);  
west.add(roomLabel);  
west.add(roomNum);  
west.add(guestLabel);  
west.add(guestNum);  
west.add(rateLabel);  
west.add(none);  
west.add(aaa);  
west.add(senior);  
west.add(gov);  
west.add(roomType);  
west.add(studio);  
west.add(standard);  
west.add(family);  
west.add(suite);  
west.add(commentLabel);  
west.add(commentArea);  
add(west, BorderLayout.WEST);
```

```
//Center Panel
```

```
billing = new JLabel ("Billing Address: ");
street = new JLabel("Street:");
streetText = new JTextField(10);
city = new JLabel("City:");
cityText = new JTextField(10);
////
state = new JLabel("State: ");
String stateList [] = {" ", "DC", "VA", "MD"};
stateBox = new JComboBox(stateList);
////
zip = new JLabel("Zipcode:");
zipText = new JTextField(10);
phone = new JLabel("Phone Number:");
phoneText = new JTextField(10);
center = new JPanel();
center.setLayout(new GridLayout(16,0));
center.add(billing);
center.add(street);
center.add(streetText);
center.add(city);
center.add(cityText);
center.add(state);
center.add(stateBox);
center.add(zip);
center.add(zipText);
center.add(phone);
center.add(phoneText);
add(center, BorderLayout.CENTER);
```

```

//East Panel

visa = new JRadioButton("");
visalIcon = new ImageIcon("visa.gif");
visaLabel = new JLabel(visalIcon);
master = new JRadioButton("");
masterIcon = new ImageIcon("master.gif");
masterLabel = new JLabel(masterIcon);
amex = new JRadioButton("");
amexIcon = new ImageIcon("amex.gif");
amexLabel = new JLabel(amexIcon);
discover = new JRadioButton("");
disIcon = new ImageIcon("discover.gif");
disLabel = new JLabel(disIcon);
cards = new ButtonGroup();
cards.add(visa);
cards.add(master);
cards.add(amex);
cards.add(discover);

////

cardNum = new JLabel("Credit Card Number: ");
cardText = new JTextField(16);
exp = new JLabel("Experation Date: ");
expText = new JTextField(5);


east = new JPanel();
east.setLayout(new GridLayout(16,20));
east.add(visa);
east.add(visaLabel);
east.add(master);

```

```
east.add(masterLabel);
east.add(amex);
east.add(amexLabel);
east.add(discover);
east.add(disLabel);
east.add(cardNum);
east.add(cardText);
east.add(exp);
east.add(expText);
add(east, BorderLayout.EAST);
```

```
setSize(800, 1000);
setVisible(true);
setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
}

public void actionPerformed(ActionEvent event) {
    if(event.getSource() == submit){
        String fName = firstNameText.getText();
        String lName = lastNameText.getText();
        String inDate = inText.getText();
        String outDate = outText.getText();
        String room = roomNum.getSelectedItem().toString();
        String guest = guestNum.getSelectedItem().toString();
        String rate = "";
        String sInfo = streetText.getText();
        String cInfo = cityText.getText();
        String stateInfo = stateBox.getSelectedItem().toString();
```

```
String zInfo = zipText.getText();  
String pInfo = phoneText.getText();  
String cNum = cardText.getText();  
String expInfo = expText.getText();
```

```
if(none.isSelected()){
```

```
    rate = "None";
```

```
} else if(aaa.isSelected()){
```

```
    rate = "AAA/CAA";
```

```
} else if(senior.isSelected()){
```

```
    rate = "Senior Discount";
```

```
} else if(gov.isSelected()){
```

```
    rate = "Government & military";
```

```
}
```

```
String studioType = "No";
```

```
if(studio.isSelected()){
```

```
    studioType = "Yes";
```

```
}
```

```
String stndType = "No";
```

```
if(standard.isSelected()){
```

```
    stndType = "Yes";
```

```
}
```

```
String fType = "No";
```

```
if(family.isSelected()){
```



```
fType = "Yes";
```

```
}
```

```
String suiteType = "No";
```

```
if(suite.isSelected()){
```

```
    suiteType = "Yes";
```

```
}
```

```
String comment = commentArea.getText();
```

```
String cardTypes = "";
```

```
if(visa.isSelected()){
```

```
    cardTypes = "Visa Card";
```

```
} else if(master.isSelected()){
```

```
    cardTypes = "Master Card";
```

```
} else if(amex.isSelected()){
```

```
    cardTypes = "Amex Card";
```

```
} else if(discover.isSelected()){
```

```
    cardTypes = "Discover Card";
```

```
}
```

```
String output = "First Name: " + fName + "\nLast Name: " + lName + "\nCheck In Date: " + inDate +  
    "\nCheck Out Date: " + outDate + "\nNo. of Rooms: " + room + "\nGuest/Room: " + guest +  
    "\nSpecial Rates: " + rate + "\nRoom Type: \nStudio: " + studioType + "\n Standard: " + stndType +  
    "\nFamily: " + fType
```

```
        + "\nSuite: " + suiteType + "\nSpecial Requests:\n" + comment + "\nBilling Address:\n" + sInfo + "\n"
+ cInfo +
```

```
        ", " + stateInfo + " " + zInfo + "\nPhone Number: " + pInfo + "\nCard Type: " + cardTypes + "\nCredit
Card Number: "
```

```
        + cNum + "\nExpiration Date: " + explInfo;
```

```
OptionPane.showMessageDialog(null, output);
```

```
} else if (event.getSource() == cancel){
```

```
//i kept those in order of to show which is which
```

```
firstNameText.setText("");
```

```
lastNameText.setText("");
```

```
inText.setText("");
```

```
outText.setText("");
```

```
roomNum.setSelectedIndex(0);
```

```
guestNum.setSelectedIndex(0);
```

```
sRate.clearSelection();
```

```
studio.setSelected(false);
```

```
standard.setSelected(false);
```

```
family.setSelected(false);
```

```
suite.setSelected(false);
```

```
commentArea.setText("");
```

```
streetText.setText("");
```

```
cityText.setText("");
```

```
stateBox.setSelectedIndex(0);
```

```
zipText.setText("");
```

```
phoneText.setText("");
```

```
cards.clearSelection();
```

```
cardText.setText("");  
expText.setText("");  
}
```

```
}
```

```
public static void main(String [] args) {  
    Hotel app = new Hotel();  
}  
}
```