



BUS

RESERVATION SYSTEM

GROUP DETAILS (NO-09)

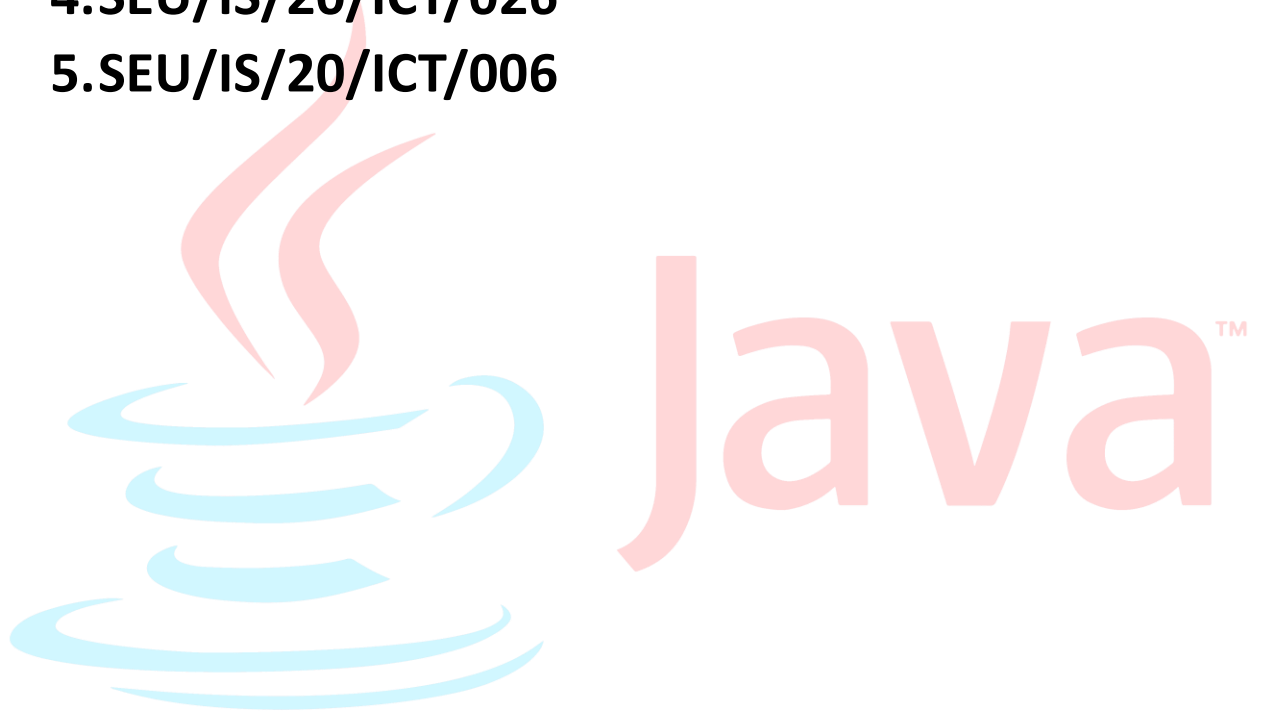
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Java™

PROJECT INTRO

In the realm of modern travel and technology, the "Bus Reservation System Project" emerges as a dynamic and practical solution developed using Java. This project encapsulates the seamless integration of effective travel management and state-of-the-art programming techniques. With a steadfast commitment to enhancing user convenience, the system adeptly calculates crucial parameters such as tax and road costs, alongside meticulously accommodating the total number of passengers. This invaluable data is subsequently harnessed to craft a comprehensive ticket fare analysis, providing travelers with unparalleled clarity regarding the financial dimensions of their journey.

Notably, the project harnesses the prowess of the NetBeans integrated development environment to streamline the development process. By leveraging NetBeans' powerful features and tools, the project achieves a harmonious synergy between efficient code development and functional design elements. The project further embraces external libraries, specifically the "jCalendar" library, to seamlessly integrate date choosing functionality, offering users a straightforward approach to selecting their desired travel dates.

Furthermore, the project embraces industry best practices by employing a "build.xml" file. This robust build configuration file enhances the management and compilation of the project, promoting a structured and organized development environment.

In addition to the technical prowess, the Bus Reservation System Project empowers users with a diverse array of choices, enabling them to seamlessly select their preferred ticket types – whether the opulent First Class or the budget-friendly Economy class – all tailored to their individual preferences. An innovative hallmark within the system empowers travelers to exercise full control over their travel plans, granting them the autonomy to choose between embarking on a one-way voyage or embracing the possibility of a return journey aboard the same bus.

As a testament to the integral role of technology in shaping modern travel experiences, this project stands as a sterling example of the harmonious amalgamation of user-centric design and sophisticated Java programming, revolutionizing the journey towards a more intuitive and informed travel booking process.

Motivation.

The primary purpose of the " Bus Reservation System Project" is to provide travelers with a seamless and user-friendly platform to efficiently reserve bus tickets while delivering accurate fare estimations. By offering a digital solution that handles intricate calculations such as tax and road costs, as well as accommodating the total passenger count, the project aims to enhance the transparency and convenience of travel planning. This system's purpose is further amplified by its capability to cater to diverse preferences through the selection of ticket types, be it First Class or Economy class. Additionally, the project's provision of a ticket mode selection, allowing travelers to choose between one-way or return journeys, adds an extra layer of flexibility to meet various travel needs. In essence, the project's purpose is to streamline the bus ticket booking process, making it more intuitive and informative for passengers while leveraging Java's prowess for efficient computation and user interaction.

OBJECTIVE

1. **Efficient Ticket Booking:** Create a user-friendly interface that enables travelers to easily search and book bus tickets online, eliminating the need for time-consuming and manual reservation processes.
2. **Accurate Fare Calculation:** Develop algorithms that accurately calculate the tax and road amounts associated with each journey, ensuring that passengers receive transparent and precise fare estimates.
3. **Comprehensive Passenger Management:** Implement a system that accommodates the input of the total number of passengers, allowing for accurate fare distribution and simplifying the booking process for group travelers.
4. **Ticket Customization:** Provide users with the option to select their preferred ticket type, whether it's the luxurious First Class or the budget-friendly Economy class, enhancing the personalization of travel experiences.
5. **Flexible Ticket Modes:** Incorporate the ability for travelers to choose between one-way and return journeys on the same bus, offering flexibility and catering to a range of travel plans.

6. Enhanced User Experience: Design an intuitive and visually appealing graphical interface that guides users through the booking process seamlessly, ensuring a positive and hassle-free experience.

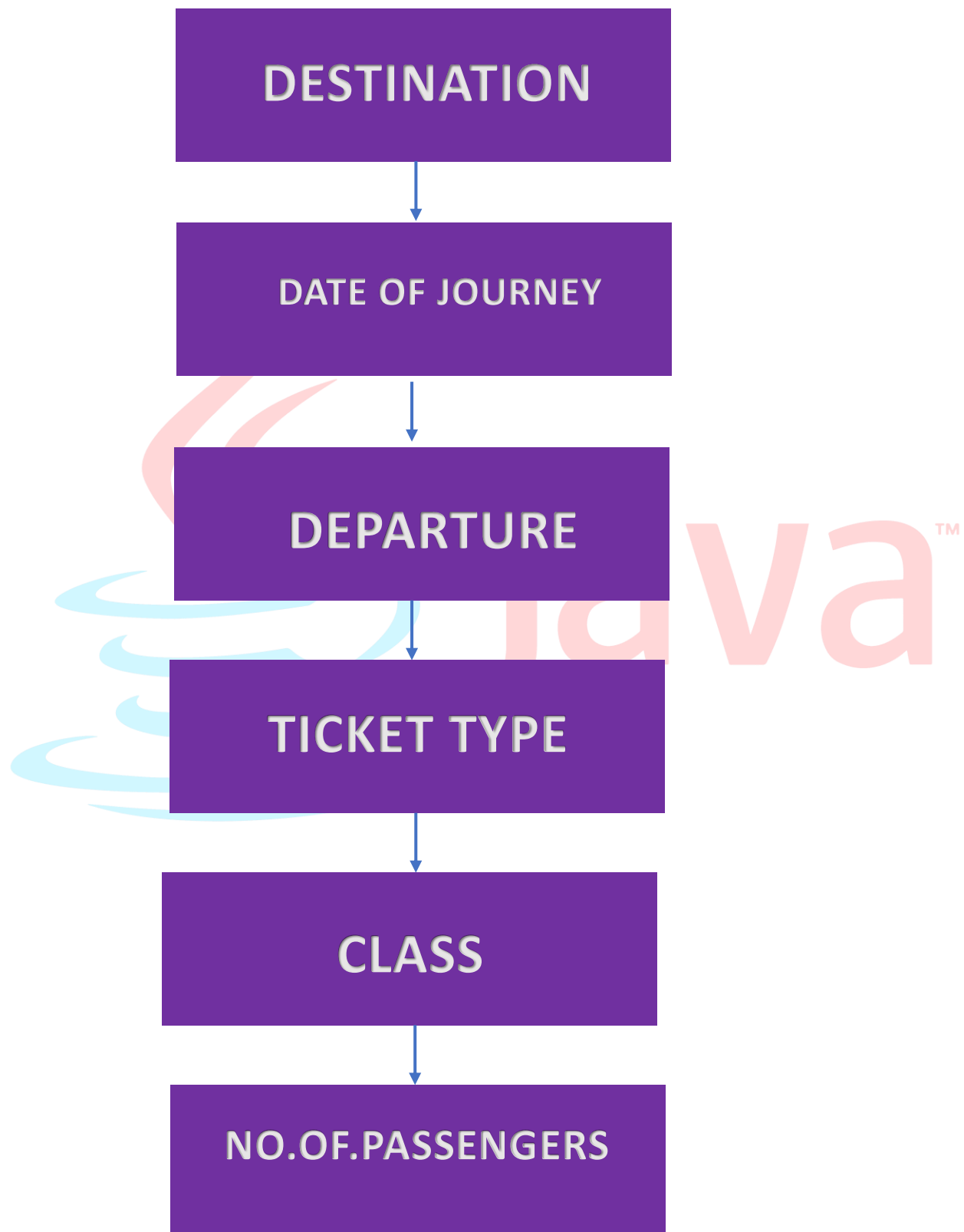
7. Technology Integration: Leverage Java programming to handle complex calculations, data management, and user interactions, showcasing the power of technology in modern travel solutions.

8. Transparency and Clarity : Provide users with a detailed breakdown of the fare components, showcasing tax, road costs, and any additional charges, enhancing transparency in the booking process.

9. Scalability and Future Expansion : Develop the project in a way that allows for future enhancements, such as integrating additional features like real-time bus tracking, seat selection, and diverse payment options.

10. Educational Value: Serve as a practical learning exercise for understanding Java programming concepts, GUI design, data handling, and the integration of algorithms into real-world applications.

System design



IMPLEMENTATION

The key features were implemented as follows:

1. Bus route

```
jComboBoxDestination = new javax.swing.JComboBox<>();

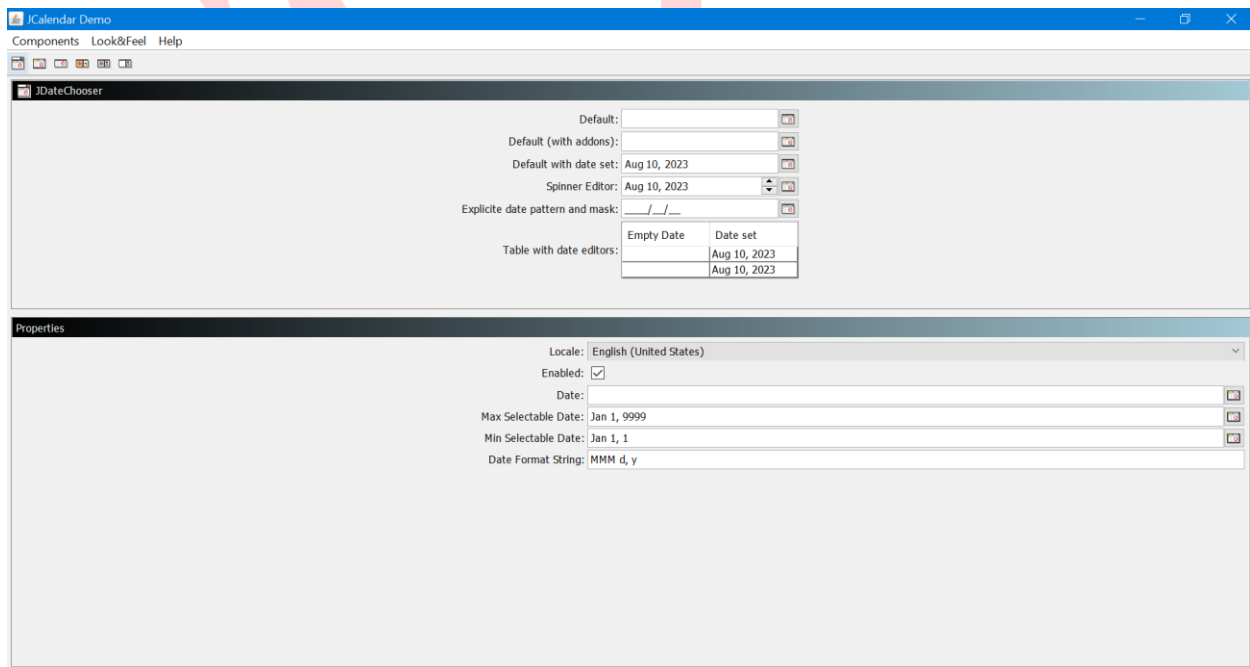
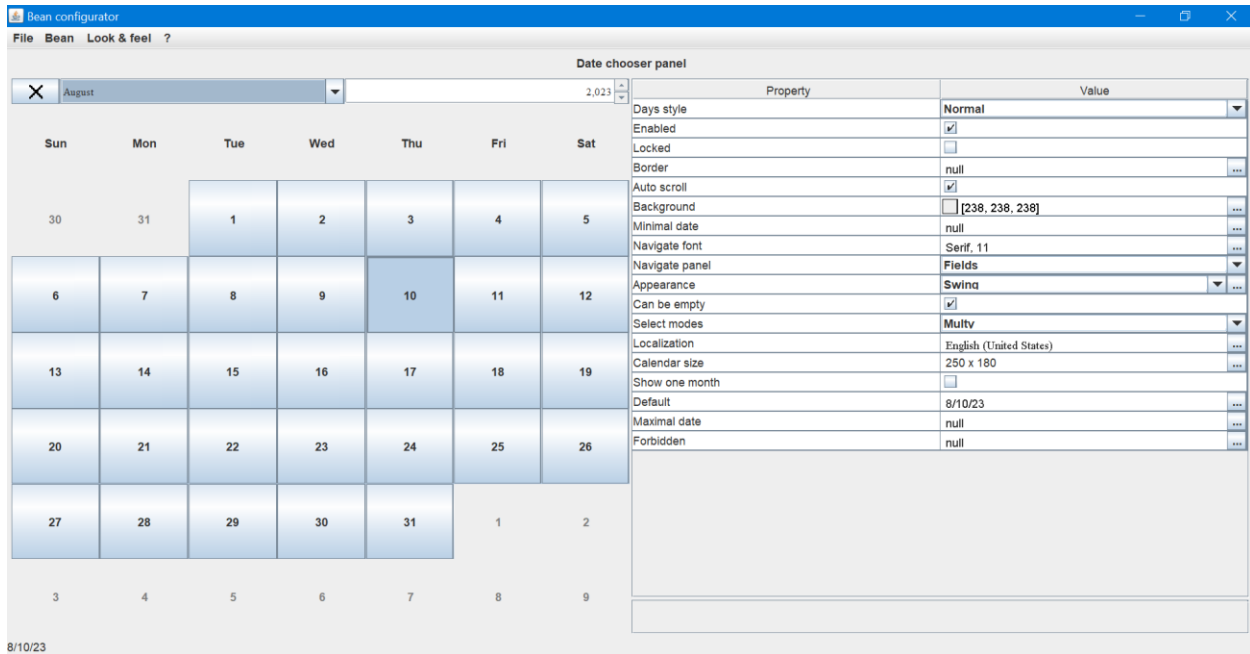
jComboBoxDestination.setModel(new
javax.swing.DefaultComboBoxModel<>(new String[] { "Select
Destination ", " Jaffna ", " Hatton ", " Colombo ", " Kandy ", "
Ratnapura ", " Badulla " }));

jComboBoxDestination.setModel(new
javax.swing.DefaultComboBoxModel<>(new String[] { "Select
Destination ", "Jaffna", "Hatton", "Colombo", "Kandy",
"Ratnapura", "Badulla" }));

jComboBoxDestination.addActionListener(new
java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt)
    {
        jComboBoxDestinationActionPerformed(evt);
    }
});
```

2.Date of journey.

```
jDateChooser = new com.toedter.calendar.JDateChooser();
```

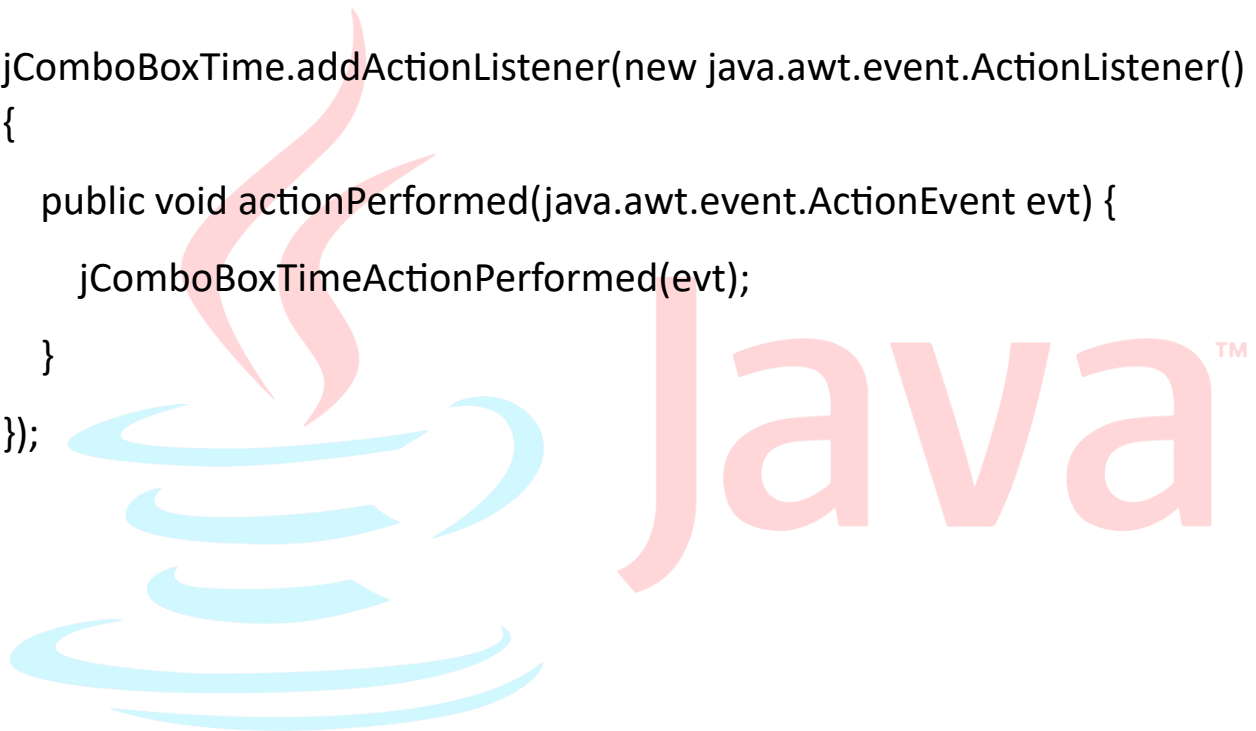


3.Departure.

```
jComboBoxTime = new javax.swing.JComboBox<>();
```

```
jComboBoxTime.setModel(new  
javax.swing.DefaultComboBoxModel<>(new String[] { "Select Time",  
"11:30", "12:30", "1:30", "2:30" }));
```

```
jComboBoxTime.addActionListener(new java.awt.event.ActionListener()  
{  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jComboBoxTimeActionPerformed(evt);  
    }  
});
```



4.TICKET TYPE

```
jRadioButtonReturn1 = new javax.swing.JRadioButton();

jRadioButtonReturn1.setFont(new java.awt.Font("Times New Roman",
1, 15));

jRadioButtonReturn1.setText("Return");

jRadioButtonReturn1.addActionListener(new
java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jRadioButtonReturn1ActionPerformed(evt);

    }

});

jRadioButtonSingle1 = new javax.swing.JRadioButton();

jRadioButtonSingle1.setFont(new java.awt.Font("Times New Roman", 1,
15));

jRadioButtonSingle1.setText("Single");

jRadioButtonSingle1.addActionListener(new
java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jRadioButtonSingle1ActionPerformed(evt);

    }

});
```

5.TICKET TYPE

```
jRadioButtonEconomy1 = new javax.swing.JRadioButton();

jRadioButtonEconomy1.setFont(new java.awt.Font("Times New
Roman", 1, 15));

jRadioButtonEconomy1.setText("Economy");

jRadioButtonEconomy1.addActionListener(new
java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jRadioButtonEconomy1ActionPerformed(evt);

    }

});

jRadioButtonFirstClass1 = new javax.swing.JRadioButton();

jRadioButtonFirstClass1.setFont(new java.awt.Font("Times New
Roman", 1, 15));

jRadioButtonFirstClass1.setText("First Class");

jRadioButtonFirstClass1.addActionListener(new
java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jRadioButtonFirstClass1ActionPerformed(evt);

    }

});
```

6.TICKET TYPE

```
jTextFieldPassenger1 = new javax.swing.JTextField();
```

7.submit

```
jButtonTotal = new javax.swing.JButton();
```

```
jButtonTotal.setBackground(new java.awt.Color(0, 255, 0));
```

```
jButtonTotal.setFont(new java.awt.Font("Times New Roman", 1, 22));
```

```
jButtonTotal.setText("Submit");
```

```
jButtonTotal.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButtonTotalActionPerformed(evt);  
    }  
});
```

9.calculations

```
private void jButtonTotalActionPerformed(java.awt.event.ActionEvent evt) {  
  
    int fare=200;  
  
    int Tax = 15;  
  
    int miles = 0;  
  
    int Tfare =0;  
  
    int Dtax=0;  
  
    int SubTotal = 0;  
  
    if(jComboBoxDestination.getSelectedItem().equals("Colombo") &&  
jRadioButtonFirstClass1.isSelected())&&  
        jRadioButtonSingle1.isSelected())&& (!(jTextFieldPassenger1.getText()== null) ) ){  
  
        int Pass = Integer.parseInt(jTextFieldPassenger1.getText());  
jTextFieldPassengers2.setText(jTextFieldPassenger1.getText());  
        jTextFieldTo.setText("Colombo");  
jTextFieldClass.setText("First Class");  
jTextFieldTicketType.setText("One Way");  
jTextFieldDate2.setText(jDateChooser.getDate().toString());  
jTextFieldForm.setText("Galle");  
  
        miles = 6;  
  
        Tfare= (miles*fare)+500;  
  
        Dtax = (Tax*Tfare)/100;  
  
        SubTotal = (Dtax + Tfare)*Pass;  
  
        String Totalfare= String.format("%d",Tfare);  
  
        String DisplayTax = String.format("%d",Dtax);  
  
        String Stotal = String.format("%d",SubTotal);
```

```

jTextFieldTotal.setText(Totalfare);
jTextFieldTax.setText(DisplayTax);
jTextFieldSubTotal.setText(Stotal);
jTextFieldPrice.setText(Stotal);

if(jComboBoxTime.getSelectedItem().equals("11:30")){
jTextFieldTime2.setText("11:30");
}else if(jComboBoxTime.getSelectedItem().equals("12:30")){
jTextFieldTime2.setText("12:30");
}

else if(jComboBoxTime.getSelectedItem().equals("1:30")){
jTextFieldTime2.setText("1:30");
}else if(jComboBoxTime.getSelectedItem().equals("2:30")){jTextFieldTime2.setText("2:30");}
else {
jTextFieldTo.setText(null);
jTextFieldTotal.setText(null);
jTextFieldTax.setText(null);
jTextFieldSubTotal.setText(null);
jTextFieldPrice.setText(null);
jTextFieldForm.setText(null);
jTextFieldDate2.setText(null);
jTextFieldTime2.setText(null);
jTextFieldClass.setText(null);
jTextFieldPassengers2.setText(null);
jTextFieldTicketType.setText(null);
}

}

else if(jComboBoxDestination.getSelectedItem().equals("Colombo") &&
jRadioButtonEconomy1.isSelected())&&

jRadioButtonSingle1.isSelected() && (!(jTextFieldPassenger1.getText()== null) )){

```



```

int Pass = Integer.parseInt(jTextFieldPassenger1.getText());

jTextFieldPassengers2.setText(jTextFieldPassenger1.getText());

jTextFieldTo.setText("Colombo");

jTextFieldClass.setText("Economy");

jTextFieldTicketType.setText("One Way");

jTextFieldDate2.setText(jDateChooser.getDate().toString());

jTextFieldForm.setText("Galle");


miles = 6;

Tfare= miles*fare;

Dtax = (Tax*Tfare)/100;

SubTotal = (Dtax + Tfare)*Pass;

String Totalfare= String.format("%d",Tfare);

String DisplayTax = String.format("%d",Dtax);

String Stotal = String.format("%d",SubTotal);

jTextFieldTotal.setText(Totalfare);

jTextFieldTax.setText(DisplayTax);

jTextFieldSubTotal.setText(Stotal);

jTextFieldPrice.setText(Stotal);

if(jComboBoxTime.getSelectedItem().equals("11:30")){

jTextFieldTime2.setText("11:30");

}else if(jComboBoxTime.getSelectedItem().equals("12:30")){

jTextFieldTime2.setText("12:30");

}

else if(jComboBoxTime.getSelectedItem().equals("1:30")){

jTextFieldTime2.setText("1:30");

}else if(jComboBoxTime.getSelectedItem().equals("2:30")){jTextFieldTime2.setText("2:30");}

else {

jTextFieldTo.setText(null);

```

```

jTextFieldTotal.setText(null);
jTextFieldTax.setText(null);
jTextFieldSubTotal.setText(null);
jTextFieldPrice.setText(null);
jTextFieldForm.setText(null);
jTextFieldDate2.setText(null);
jTextFieldTime2.setText(null);
jTextFieldClass.setText(null);
jTextFieldPassengers2.setText(null);
jTextFieldTicketType.setText(null);
}
}

else if(jComboBoxDestination.getSelectedItem().equals("Colombo") &&
jRadioButtonFirstClass1.isSelected())&&

    jRadioButtonReturn1.isSelected() && (!(jTextFieldPassenger1.getText()== null)) ){

    int Pass = Integer.parseInt(jTextFieldPassenger1.getText());

    jTextFieldPassengers2.setText(jTextFieldPassenger1.getText());
    jTextFieldTo.setText("Colombo");
    jTextFieldClass.setText("First Class");
    jTextFieldTicketType.setText("Round Trip");
    jTextFieldDate2.setText(jDateChooser.getDate().toString());

    jTextFieldForm.setText("Galle");

    miles = 6;

    Tfare= (miles*fare*2)+500;

    Dtax = (Tax*Tfare)/100;

    SubTotal = (Dtax + Tfare)*Pass;

    String Totalfare= String.format("%d",Tfare);

    String DisplayTax = String.format("%d",Dtax);

    String Stotal = String.format("%d",SubTotal);

```

```

jTextFieldTotal.setText(Totalfare);
jTextFieldTax.setText(DisplayTax);
jTextFieldSubTotal.setText(Stotal);
jTextFieldPrice.setText(Stotal);

if(jComboBoxTime.getSelectedItem().equals("11:30")){
jTextFieldTime2.setText("11:30");
}else if(jComboBoxTime.getSelectedItem().equals("12:30")){
jTextFieldTime2.setText("12:30");
}

else if(jComboBoxTime.getSelectedItem().equals("1:30")){
jTextFieldTime2.setText("1:30");
}else if(jComboBoxTime.getSelectedItem().equals("2:30")){jTextFieldTime2.setText("2:30");}
else {
jTextFieldTo.setText(null);
jTextFieldTotal.setText(null);
jTextFieldTax.setText(null);
jTextFieldSubTotal.setText(null);
jTextFieldPrice.setText(null);
jTextFieldForm.setText(null);
jTextFieldDate2.setText(null);
jTextFieldTime2.setText(null);
jTextFieldClass.setText(null);
jTextFieldPassengers2.setText(null);
jTextFieldTicketType.setText(null);
}
}

else if(jComboBoxDestination.getSelectedItem().equals("Colombo") &&
jRadioButtonEconomy1.isSelected())&&

jRadioButtonReturn1.isSelected()&& (!(jTextFieldPassenger1.getText()== null) ){

int Pass = Integer.parseInt(jTextFieldPassenger1.getText());

```

```
jTextFieldPassengers2.setText(jTextFieldPassenger1.getText());
```

```
jTextFieldTo.setText("Colombo");
```

```
jTextFieldClass.setText("Economy");
```

```
jTextFieldTicketType.setText("Round Trip");
```

```
jTextFieldDate2.setText(jDateChooser.getDate().toString());
```

```
jTextFieldForm.setText("Galle");
```

```
miles = 6;
```

```
Tfare= miles*fare*2;
```

```
Dtax = (Tax*Tfare)/100;
```

```
SubTotal = (Dtax + Tfare)*Pass;
```

```
String Totalfare= String.format("%d",Tfare);
```

```
String DisplayTax = String.format("%d",Dtax);
```

```
String Stotal = String.format("%d",SubTotal);
```

```
jTextFieldTotal.setText(Totalfare);
```

```
jTextFieldTax.setText(DisplayTax);
```

```
jTextFieldSubTotal.setText(Stotal);
```

```
jTextFieldPrice.setText(Stotal);
```

```
if(jComboBoxTime.getSelectedItem().equals("11:30")){
```

```
jTextFieldTime2.setText("11:30");
```

```
}else if(jComboBoxTime.getSelectedItem().equals("12:30")){
```

```
jTextFieldTime2.setText("12:30");
```

```
}
```

```
else if(jComboBoxTime.getSelectedItem().equals("1:30")){
```

```
jTextFieldTime2.setText("1:30");
```

```
}else if(jComboBoxTime.getSelectedItem().equals("2:30")){jTextFieldTime2.setText("2:30");}
```

```
else if(jComboBoxTime.getSelectedItem().equals("Select Time")){
```

```
jTextFieldTo.setText(null);
```

```

jTextFieldTotal.setText(null);
jTextFieldTax.setText(null);
jTextFieldSubTotal.setText(null);
jTextFieldPrice.setText(null);
jTextFieldForm.setText(null);
jTextFieldDate2.setText(null);
jTextFieldTime2.setText(null);
jTextFieldClass.setText(null);
jTextFieldPassengers2.setText(null);
jTextFieldTicketType.setText(null);
}
}

else if(jComboBoxDestination.getSelectedItem().equals("Jaffna")&&
jRadioButtonEconomy1.isSelected())&&
    jRadioButtonSingle1.isSelected())&& (!(jTextFieldPassenger1.getText()== null) ){
int Pass = Integer.parseInt(jTextFieldPassenger1.getText());

jTextFieldPassengers2.setText(jTextFieldPassenger1.getText());
jTextFieldTo.setText("Jaffna");
jTextFieldClass.setText("Economy");
jTextFieldTicketType.setText("One Way");
jTextFieldDate2.setText(jDateChooser.getDate().toString());

jTextFieldForm.setText("Galle");

    miles = 4;

    Tfare= miles*fare;

    Dtax = (Tax*Tfare)/100;

    SubTotal = (Dtax + Tfare)*Pass;

    String Totalfare= String.format("%d",Tfare);

    String DisplayTax = String.format("%d",Dtax);

    String Stotal = String.format("%d",SubTotal);

```

```

jTextFieldTotal.setText(Totalfare);
jTextFieldTax.setText(DisplayTax);
jTextFieldSubTotal.setText(Stotal);
jTextFieldPrice.setText(Stotal);
if(jComboBoxTime.getSelectedItem().equals("11:30")){
jTextFieldTime2.setText("11:30");
}else if(jComboBoxTime.getSelectedItem().equals("12:30")){
jTextFieldTime2.setText("12:30");
}
else if(jComboBoxTime.getSelectedItem().equals("1:30")){
jTextFieldTime2.setText("1:30");
}else if(jComboBoxTime.getSelectedItem().equals("2:30")){jTextFieldTime2.setText("2:30");}
else {
jTextFieldTo.setText(null);
jTextFieldTotal.setText(null);
jTextFieldTax.setText(null);
jTextFieldSubTotal.setText(null);
jTextFieldPrice.setText(null);
jTextFieldForm.setText(null);
jTextFieldDate2.setText(null);
jTextFieldTime2.setText(null);
jTextFieldClass.setText(null);
jTextFieldPassengers2.setText(null);
jTextFieldTicketType.setText(null);
}
}

else if(jComboBoxDestination.getSelectedItem().equals("Jaffna") &&
jRadioButtonFirstClass1.isSelected() &&
jRadioButtonSingle1.isSelected()&& (!(jTextFieldPassenger1.getText()== null) ) ){
int Pass = Integer.parseInt(jTextFieldPassenger1.getText());

```

```

jTextFieldPassengers2.setText(jTextFieldPassenger1.getText());

jTextFieldTo.setText("Jaffna");

jTextFieldClass.setText("First Class");

jTextFieldTicketType.setText("One Way");

jTextFieldDate2.setText(jDateChooser.getDate().toString());

jTextFieldForm.setText("Galle");

    miles = 4;

    Tfare= (miles*fare)+500;
    Dtax = (Tax*Tfare)/100;
    SubTotal = (Dtax + Tfare)*Pass;
    String Totalfare= String.format("%d",Tfare);
    String DisplayTax = String.format("%d",Dtax);
    String Stotal = String.format("%d",SubTotal);
jTextFieldTotal.setText(Totalfare);
jTextFieldTax.setText(DisplayTax);
jTextFieldSubTotal.setText(Stotal);
jTextFieldPrice.setText(Stotal);

    if(jComboBoxTime.getSelectedItem().equals("11:30")){
jTextFieldTime2.setText("11:30");
    }else if(jComboBoxTime.getSelectedItem().equals("12:30")){
jTextFieldTime2.setText("12:30");
    }

    else if(jComboBoxTime.getSelectedItem().equals("1:30")){
jTextFieldTime2.setText("1:30");
    }else if(jComboBoxTime.getSelectedItem().equals("2:30")){jTextFieldTime2.setText("2:30");}

    else{

        jTextFieldTo.setText(null);
jTextFieldTotal.setText(null);

```

```

jTextFieldTax.setText(null);
jTextFieldSubTotal.setText(null);
jTextFieldPrice.setText(null);
jTextFieldForm.setText(null);
jTextFieldDate2.setText(null);
jTextFieldTime2.setText(null);
jTextFieldClass.setText(null);
jTextFieldPassengers2.setText(null);
jTextFieldTicketType.setText(null);
}
}

else if(jComboBoxDestination.getSelectedItemAt().equals("Jaffna"))&&
jRadioButtonEconomy1.isSelected())&&

    jRadioButtonReturn1.isSelected() && (!(jTextFieldPassenger1.getText() == null) ){
int Pass = Integer.parseInt(jTextFieldPassenger1.getText());

jTextFieldPassengers2.setText(jTextFieldPassenger1.getText());
jTextFieldTo.setText("Jaffna");
jTextFieldClass.setText("Economy");
jTextFieldTicketType.setText("Round Trip");
jTextFieldDate2.setText(jDateChooser.getDate().toString());

jTextFieldForm.setText("Galle");

miles = 4;

Tfare= miles*fare*2;
Dtax = (Tax*Tfare)/100;
SubTotal = (Dtax + Tfare)*Pass;
String Totalfare= String.format("%d",Tfare);
String DisplayTax = String.format("%d",Dtax);

```



```

        String Stotal = String.format("%d",SubTotal);
jTextFieldTotal.setText(Totalfare);
jTextFieldTax.setText(DisplayTax);
jTextFieldSubTotal.setText(Stotal);
jTextFieldPrice.setText(Stotal);
        if(jComboBoxTime.getSelectedItem().equals("11:30")){
jTextFieldTime2.setText("11:30");
        }else if(jComboBoxTime.getSelectedItem().equals("12:30")){
jTextFieldTime2.setText("12:30");
        }
        else if(jComboBoxTime.getSelectedItem().equals("1:30")){
jTextFieldTime2.setText("1:30");
        }else if(jComboBoxTime.getSelectedItem().equals("2:30")){jTextFieldTime2.setText("2:30");}
        else {
            jTextFieldTo.setText(null);
jTextFieldTotal.setText(null);
jTextFieldTax.setText(null);
jTextFieldSubTotal.setText(null);
jTextFieldPrice.setText(null);
jTextFieldForm.setText(null);
jTextFieldDate2.setText(null);
jTextFieldTime2.setText(null);
jTextFieldClass.setText(null);
jTextFieldPassengers2.setText(null);
jTextFieldTicketType.setText(null);
        }
    }

    else if(jComboBoxDestination.getSelectedItem().equals("Jaffna") &&
jRadioButtonFirstClass1.isSelected() &&

        jRadioButtonReturn1.isSelected()&& (!(jTextFieldPassenger1.getText()== null) ) ){

```

```
int Pass = Integer.parseInt(jTextFieldPassenger1.getText());
```

```
jTextFieldPassengers2.setText(jTextFieldPassenger1.getText());
```

```
jTextFieldTo.setText("Jaffna");
```

```
jTextFieldClass.setText("First Class");
```

```
jTextFieldTicketType.setText("Round Trip");
```

```
jTextFieldDate2.setText(jDateChooser.getDate().toString());
```

```
jTextFieldForm.setText("Galle");
```

```
miles = 4;
```

```
Tfare= (miles*fare*2)+500;
```

```
Dtax = (Tax*Tfare)/100;
```

```
SubTotal = (Dtax + Tfare)*Pass;
```

```
String Totalfare= String.format("%d",Tfare);
```

```
String DisplayTax = String.format("%d",Dtax);
```

```
String Stotal = String.format("%d",SubTotal);
```

```
jTextFieldTotal.setText(Totalfare);
```

```
jTextFieldTax.setText(DisplayTax);
```

```
jTextFieldSubTotal.setText(Stotal);
```

```
jTextFieldPrice.setText(Stotal);
```

```
if(jComboBoxTime.getSelectedItem().equals("11:30")){
```

```
jTextFieldTime2.setText("11:30");
```

```
}else if(jComboBoxTime.getSelectedItem().equals("12:30")){
```

```
jTextFieldTime2.setText("12:30");
```

```
}
```

```
else if(jComboBoxTime.getSelectedItem().equals("1:30")){
```

```
jTextFieldTime2.setText("1:30");
```

```
}else if(jComboBoxTime.getSelectedItem().equals("2:30")){jTextFieldTime2.setText("2:30");}
```

```
else {
```

```

        jTextFieldTo.setText(null);
        jTextFieldTotal.setText(null);
        jTextFieldTax.setText(null);
        jTextFieldSubTotal.setText(null);
        jTextFieldPrice.setText(null);
        jTextFieldForm.setText(null);
        jTextFieldDate2.setText(null);
        jTextFieldTime2.setText(null);
        jTextFieldClass.setText(null);
        jTextFieldPassengers2.setText(null);
        jTextFieldTicketType.setText(null);
    }
}

else if(jComboBoxDestination.getSelectedItem().equals("Kandy") &&
jRadioButtonEconomy1.isSelected()
        && jRadioButtonReturn1.isSelected()&& !(jTextFieldPassenger1.getText()== null) ){
    int Pass = Integer.parseInt(jTextFieldPassenger1.getText());

    jTextFieldPassengers2.setText(jTextFieldPassenger1.getText());
    jTextFieldTo.setText("Kandy");
    jTextFieldClass.setText("Economy");
    jTextFieldTicketType.setText("Round Trip");
    jTextFieldDate2.setText(jDateChooser.getDate().toString());
    jTextFieldForm.setText("Galle");

    miles = 5;

    Tfare= miles*fare*2;
    Dtax = (Tax*Tfare)/100;
    SubTotal = (Dtax + Tfare)*Pass;
    String Totalfare= String.format("%d",Tfare);

```

```

String DisplayTax = String.format("%d",Dtax);
String Stotal = String.format("%d",SubTotal);
jTextFieldTotal.setText(Totalfare);
jTextFieldTax.setText(DisplayTax);
jTextFieldSubTotal.setText(Stotal);
jTextFieldPrice.setText(Stotal);
if(jComboBoxTime.getSelectedItem().equals("11:30")){
jTextFieldTime2.setText("11:30");
}else if(jComboBoxTime.getSelectedItem().equals("12:30")){
jTextFieldTime2.setText("12:30");
}
else if(jComboBoxTime.getSelectedItem().equals("1:30")){
jTextFieldTime2.setText("1:30");
}else if(jComboBoxTime.getSelectedItem().equals("2:30")){jTextFieldTime2.setText("2:30");}
else {
jTextFieldTo.setText(null);
jTextFieldTotal.setText(null);
jTextFieldTax.setText(null);
jTextFieldSubTotal.setText(null);
jTextFieldPrice.setText(null);
jTextFieldForm.setText(null);
jTextFieldDate2.setText(null);
jTextFieldTime2.setText(null);
jTextFieldClass.setText(null);
jTextFieldPassengers2.setText(null);
jTextFieldTicketType.setText(null);
}
}

else if(jComboBoxDestination.getSelectedItem().equals("Kandy") &&
jRadioButtonFirstClass1.isSelected()

```

```

        && jRadioButtonReturn1.isSelected() && (!(jTextFieldPassenger1.getText() == null) )){
int Pass = Integer.parseInt(jTextFieldPassenger1.getText());

jTextFieldPassengers2.setText(jTextFieldPassenger1.getText());
jTextFieldTo.setText("Kandy");
jTextFieldClass.setText("First Class");
jTextFieldTicketType.setText("Round Trip");
jTextFieldDate2.setText(jDateChooser.getDate().toString());
jTextFieldForm.setText("Galle");

miles = 5;
Tfare= (miles*fare*2)+500;
Dtax = (Tax*Tfare)/100;
SubTotal = (Dtax + Tfare)*Pass;
String Totalfare= String.format("%d",Tfare);
String DisplayTax = String.format("%d",Dtax);
String Stotal = String.format("%d",SubTotal);
jTextFieldTotal.setText(Totalfare);
jTextFieldTax.setText(DisplayTax);
jTextFieldSubTotal.setText(Stotal);
jTextFieldPrice.setText(Stotal);
if(jComboBoxTime.getSelectedItemAt().equals("11:30")){
jTextFieldTime2.setText("11:30");
}else if(jComboBoxTime.getSelectedItemAt().equals("12:30")){
jTextFieldTime2.setText("12:30");
}
else if(jComboBoxTime.getSelectedItemAt().equals("1:30")){
jTextFieldTime2.setText("1:30");
}else if(jComboBoxTime.getSelectedItemAt().equals("2:30")){jTextFieldTime2.setText("2:30");}

```

```

else {
    jTextFieldTo.setText(null);
    jTextFieldTotal.setText(null);
    jTextFieldTax.setText(null);
    jTextFieldSubTotal.setText(null);
    jTextFieldPrice.setText(null);
    jTextFieldForm.setText(null);
    jTextFieldDate2.setText(null);
    jTextFieldTime2.setText(null);
    jTextFieldClass.setText(null);
    jTextFieldPassengers2.setText(null);
    jTextFieldTicketType.setText(null);
}
}

else if(jComboBoxDestination.getSelectedItem().equals("Kandy") &&
jRadioButtonEconomy1.isSelected()
    && jRadioButtonSingle1.isSelected())&& (!(jTextFieldPassenger1.getText()== null) ){
    int Pass = Integer.parseInt(jTextFieldPassenger1.getText());

    jTextFieldPassengers2.setText(jTextFieldPassenger1.getText());
    jTextFieldTo.setText("Kandy");
    jTextFieldClass.setText("Economy");
    jTextFieldTicketType.setText("One Way");
    jTextFieldDate2.setText(jDateChooser.getDate().toString());
    jTextFieldForm.setText("Galle");

    miles = 5;

    Tfare= miles*fare;
    Dtax = (Tax*Tfare)/100;
    SubTotal = (Dtax + Tfare)*Pass;

```

```

String Totalfare= String.format("%d",Tfare);

String DisplayTax = String.format("%d",Dtax);

String Stotal = String.format("%d",SubTotal);

jTextFieldTotal.setText(Totalfare);

jTextFieldTax.setText(DisplayTax);

jTextFieldSubTotal.setText(Stotal);

jTextFieldPrice.setText(Stotal);

if(jComboBoxTime.getSelectedItem().equals("11:30")){
    jTextFieldTime2.setText("11:30");
}
else if(jComboBoxTime.getSelectedItem().equals("12:30")){
    jTextFieldTime2.setText("12:30");
}
else if(jComboBoxTime.getSelectedItem().equals("1:30")){
    jTextFieldTime2.setText("1:30");
}
else if(jComboBoxTime.getSelectedItem().equals("2:30")){jTextFieldTime2.setText("2:30");}
else {
    jTextFieldTo.setText(null);
    jTextFieldTotal.setText(null);
    jTextFieldTax.setText(null);
    jTextFieldSubTotal.setText(null);
    jTextFieldPrice.setText(null);
    jTextFieldForm.setText(null);
    jTextFieldDate2.setText(null);
    jTextFieldTime2.setText(null);
    jTextFieldClass.setText(null);
    jTextFieldPassengers2.setText(null);
    jTextFieldTicketType.setText(null);
}
}

```

```

        else if(jComboBoxDestination.getSelectedItemAt().equals("Kandy") &&
jRadioButtonFirstClass1.isSelected()

            && jRadioButtonSingle1.isSelected())&& (!(jTextFieldPassenger1.getText()== null) ) ){

int Pass = Integer.parseInt(jTextFieldPassenger1.getText());

jTextFieldPassengers2.setText(jTextFieldPassenger1.getText());

jTextFieldTo.setText("Kandy");

jTextFieldClass.setText("First Class");

jTextFieldTicketType.setText("One Way");

jTextFieldDate2.setText(jDateChooser.getDate().toString());

jTextFieldForm.setText("Galle");

miles = 5;
Tfare= (miles*fare)+500;
Dtax = (Tax*Tfare)/100;
SubTotal = (Dtax + Tfare)*Pass;
String Totalfare= String.format("%d",Tfare);
String DisplayTax = String.format("%d",Dtax);
String Stotal = String.format("%d",SubTotal);
jTextFieldTotal.setText(Totalfare);
jTextFieldTax.setText(DisplayTax);
jTextFieldSubTotal.setText(Stotal);
jTextFieldPrice.setText(Stotal);

if(jComboBoxTime.getSelectedItemAt().equals("11:30")){
jTextFieldTime2.setText("11:30");
}else if(jComboBoxTime.getSelectedItemAt().equals("12:30")){
jTextFieldTime2.setText("12:30");
}

else if(jComboBoxTime.getSelectedItemAt().equals("1:30")){

```



```

jTextFieldTime2.setText("1:30");

}else if(jComboBoxTime.getSelectedItem().equals("2:30")){jTextFieldTime2.setText("2:30");}

else {

    jTextFieldTo.setText(null);

jTextFieldTotal.setText(null);

jTextFieldTax.setText(null);

jTextFieldSubTotal.setText(null);

jTextFieldPrice.setText(null);

jTextFieldForm.setText(null);

jTextFieldDate2.setText(null);

jTextFieldTime2.setText(null);

jTextFieldClass.setText(null);

jTextFieldPassengers2.setText(null);

jTextFieldTicketType.setText(null);

}

}

else if(jComboBoxDestination.getSelectedItem().equals("Ratnapura")&&
jRadioButtonEconomy1.isSelected()

    && jRadioButtonSingle1.isSelected())&& (!(jTextFieldPassenger1.getText()== null) ){

int Pass = Integer.parseInt(jTextFieldPassenger1.getText());

jTextFieldPassengers2.setText(jTextFieldPassenger1.getText());

jTextFieldTo.setText("Ratnapura");

jTextFieldClass.setText("Economy");

jTextFieldTicketType.setText("One Way");

jTextFieldDate2.setText(jDateChooser.getDate().toString());

jTextFieldForm.setText("Galle");

miles = 7;

Tfare= miles*fare;

```

```
Dtax = (Tax*Tfare)/100;
SubTotal = (Dtax + Tfare)*Pass;
String Totalfare= String.format("%d",Tfare);
String DisplayTax = String.format("%d",Dtax);
String Stotal = String.format("%d",SubTotal);
jTextFieldTotal.setText(Totalfare);
jTextFieldTax.setText(DisplayTax);
jTextFieldSubTotal.setText(Stotal);
jTextFieldPrice.setText(Stotal);
if(jComboBoxTime.getSelectedItem().equals("11:30")){
jTextFieldTime2.setText("11:30");
}else if(jComboBoxTime.getSelectedItem().equals("12:30")){
jTextFieldTime2.setText("12:30");
}
else if(jComboBoxTime.getSelectedItem().equals("1:30")){
jTextFieldTime2.setText("1:30");
}else if(jComboBoxTime.getSelectedItem().equals("2:30")){jTextFieldTime2.setText("2:30");}
else {
jTextFieldTo.setText(null);
jTextFieldTotal.setText(null);
jTextFieldTax.setText(null);
jTextFieldSubTotal.setText(null);
jTextFieldPrice.setText(null);
jTextFieldForm.setText(null);
jTextFieldDate2.setText(null);
jTextFieldTime2.setText(null);
jTextFieldClass.setText(null);
jTextFieldPassengers2.setText(null);
jTextFieldTicketType.setText(null);
}
```

```

    }

    else if(jComboBoxDestination.getSelectedItemAt().equals("Ratnapura") &&
jRadioButtonFirstClass1.isSelected()

        && jRadioButtonReturn1.isSelected())&& (!(jTextFieldPassenger1.getText()== null) ) ){

        int Pass = Integer.parseInt(jTextFieldPassenger1.getText());

jTextFieldPassengers2.setText(jTextFieldPassenger1.getText());

        jTextFieldTo.setText("Ratnapura");
jTextFieldClass.setText("First Class");
jTextFieldTicketType.setText("Round Trip");
jTextFieldDate2.setText(jDateChooser.getDate().toString());
jTextFieldForm.setText("Galle");

        miles = 7;
        Tfare= (miles*fare*2)+500;
        Dtax = (Tax*Tfare)/100;
        SubTotal = (Dtax + Tfare)*(Pass);
        String Totalfare= String.format("%d",Tfare);
        String DisplayTax = String.format("%d",Dtax);
        String Stotal = String.format("%d",SubTotal);
jTextFieldTotal.setText(Totalfare);
jTextFieldTax.setText(DisplayTax);
jTextFieldSubTotal.setText(Stotal);
jTextFieldPrice.setText(Stotal);
        if(jComboBoxTime.getSelectedItemAt().equals("11:30")){
jTextFieldTime2.setText("11:30");
        }else if(jComboBoxTime.getSelectedItemAt().equals("12:30")){
jTextFieldTime2.setText("12:30");
        }
    }

```

```

        else if(jComboBoxTime.getSelectedItem().equals("1:30")){
jTextFieldTime2.setText("1:30");
        }else if(jComboBoxTime.getSelectedItem().equals("2:30")){jTextFieldTime2.setText("2:30");}
        else {
            jTextFieldTo.setText(null);
jTextFieldTotal.setText(null);
jTextFieldTax.setText(null);
jTextFieldSubTotal.setText(null);
jTextFieldPrice.setText(null);
jTextFieldForm.setText(null);
jTextFieldDate2.setText(null);
jTextFieldTime2.setText(null);
jTextFieldClass.setText(null);
jTextFieldPassengers2.setText(null);
jTextFieldTicketType.setText(null);
        }
    }
        else if(jComboBoxDestination.getSelectedItem().equals("Ratnapura")&&
jRadioButtonEconomy1.isSelected()
            && jRadioButtonReturn1.isSelected())&& (!(jTextFieldPassenger1.getText() == null) )){
            int Pass = Integer.parseInt(jTextFieldPassenger1.getText());

jTextFieldPassengers2.setText(jTextFieldPassenger1.getText());
            jTextFieldTo.setText("Ratnapura");
jTextFieldClass.setText("Economy");
jTextFieldTicketType.setText("Round Trip");
jTextFieldDate2.setText(jDateChooser.getDate().toString());
jTextFieldForm.setText("Galle");

```

```

miles = 7;

Tfare= miles*fare*2;

Dtax = (Tax*Tfare)/100;

SubTotal = (Dtax + Tfare)*Pass;

String Totalfare= String.format("%d",Tfare);

String DisplayTax = String.format("%d",Dtax);

String Stotal = String.format("%d",SubTotal);

jTextFieldTotal.setText(Totalfare);

jTextFieldTax.setText(DisplayTax);

jTextFieldSubTotal.setText(Stotal);

jTextFieldPrice.setText(Stotal);

if(jComboBoxTime.getSelectedItem().equals("11:30")){
jTextFieldTime2.setText("11:30");
}else if(jComboBoxTime.getSelectedItem().equals("12:30")){
jTextFieldTime2.setText("12:30");
}
else if(jComboBoxTime.getSelectedItem().equals("1:30")){
jTextFieldTime2.setText("1:30");
}else if(jComboBoxTime.getSelectedItem().equals("2:30")){jTextFieldTime2.setText("2:30");}
else {
jTextFieldTo.setText(null);
jTextFieldTotal.setText(null);
jTextFieldTax.setText(null);
jTextFieldSubTotal.setText(null);
jTextFieldPrice.setText(null);
jTextFieldForm.setText(null);
jTextFieldDate2.setText(null);
jTextFieldTime2.setText(null);
jTextFieldClass.setText(null);
jTextFieldPassengers2.setText(null);

```

```

jTextFieldTicketType.setText(null);
}
}

else if(jComboBoxDestination.getSelectedItemAt().equals("Ratnapura") &&
jRadioButtonFirstClass1.isSelected()

&& jRadioButtonSingle1.isSelected()&& (!(jTextFieldPassenger1.getText()== null) ) ){

int Pass = Integer.parseInt(jTextFieldPassenger1.getText());

jTextFieldPassengers2.setText(jTextFieldPassenger1.getText());

jTextFieldTo.setText("Ratnapura");
jTextFieldClass.setText("First Class");
jTextFieldTicketType.setText("One Way");
jTextFieldDate2.setText(jDateChooser.getDate().toString());
jTextFieldForm.setText("Galle");

miles = 7;
Tfare= (miles*fare)+500;
Dtax = (Tax*Tfare)/100;
SubTotal = (Dtax + Tfare)*(Pass);
String Totalfare= String.format("%d",Tfare);
String DisplayTax = String.format("%d",Dtax);
String Stotal = String.format("%d",SubTotal);

jTextFieldTotal.setText(Totalfare);
jTextFieldTax.setText(DisplayTax);
jTextFieldSubTotal.setText(Stotal);
jTextFieldPrice.setText(Stotal);

if(jComboBoxTime.getSelectedItemAt().equals("11:30")){
jTextFieldTime2.setText("11:30");
}else if(jComboBoxTime.getSelectedItemAt().equals("12:30")){
jTextFieldTime2.setText("12:30");
}
}

```

```

    }

    else if(jComboBoxTime.getSelectedItem().equals("1:30")){
jTextFieldTime2.setText("1:30");

    }else if(jComboBoxTime.getSelectedItem().equals("2:30")){jTextFieldTime2.setText("2:30");}

    else {

        jTextFieldTo.setText(null);
jTextFieldTotal.setText(null);

jTextFieldTax.setText(null);

jTextFieldSubTotal.setText(null);

jTextFieldPrice.setText(null);
jTextFieldForm.setText(null);

jTextFieldDate2.setText(null);
jTextFieldTime2.setText(null);

jTextFieldClass.setText(null);

jTextFieldPassengers2.setText(null);
jTextFieldTicketType.setText(null);
    }
}

    else if(jComboBoxDestination.getSelectedItem().equals("Badulla")&&
jRadioButtonEconomy1.isSelected()

        && jRadioButtonSingle1.isSelected())&& (!(jTextFieldPassenger1.getText()== null) ){

int Pass = Integer.parseInt(jTextFieldPassenger1.getText());

jTextFieldPassengers2.setText(jTextFieldPassenger1.getText());

jTextFieldTo.setText("Badulla");

jTextFieldClass.setText("Economy");

jTextFieldTicketType.setText("One Way");

jTextFieldDate2.setText(jDateChooser.getDate().toString());

jTextFieldForm.setText("Galle");

```

```

miles = 9;

Tfare= miles*fare;

Dtax = (Tax*Tfare)/100;

SubTotal = (Dtax + Tfare)*Pass;

String Totalfare= String.format("%d",Tfare);

String DisplayTax = String.format("%d",Dtax);

String Stotal = String.format("%d",SubTotal);

jTextFieldTotal.setText(Totalfare);

jTextFieldTax.setText(DisplayTax);

jTextFieldSubTotal.setText(Stotal);

jTextFieldPrice.setText(Stotal);

if(jComboBoxTime.getSelectedItem().equals("11:30")){
jTextFieldTime2.setText("11:30");
}else if(jComboBoxTime.getSelectedItem().equals("12:30")){
jTextFieldTime2.setText("12:30");
}
else if(jComboBoxTime.getSelectedItem().equals("1:30")){
jTextFieldTime2.setText("1:30");
}else if(jComboBoxTime.getSelectedItem().equals("2:30")){jTextFieldTime2.setText("2:30");}
else {
jTextFieldTo.setText(null);
jTextFieldTotal.setText(null);
jTextFieldTax.setText(null);
jTextFieldSubTotal.setText(null);
jTextFieldPrice.setText(null);
jTextFieldForm.setText(null);
jTextFieldDate2.setText(null);
jTextFieldTime2.setText(null);
jTextFieldClass.setText(null);
jTextFieldPassengers2.setText(null);

```



```

jTextFieldTicketType.setText(null);
}
}

else if(jComboBoxDestination.getSelectedItemAt().equals("Badulla") &&
jRadioButtonFirstClass1.isSelected()

    && jRadioButtonSingle1.isSelected()&& (!(jTextFieldPassenger1.getText()== null) ) ){

    int Pass = Integer.parseInt(jTextFieldPassenger1.getText());

jTextFieldPassengers2.setText(jTextFieldPassenger1.getText());

jTextFieldTo.setText("Badulla");
jTextFieldClass.setText("First Class");
jTextFieldTicketType.setText("One Way");
jTextFieldDate2.setText(jDateChooser.getDate().toString());
jTextFieldForm.setText("Galle");

    miles = 9;
    Tfare= (miles*fare)+500;
    Dtax = (Tax*Tfare)/100;
    SubTotal = (Dtax + Tfare)*Pass;
    String Totalfare= String.format("%d",Tfare);
    String DisplayTax = String.format("%d",Dtax);
    String Stotal = String.format("%d",SubTotal);

jTextFieldTotal.setText(Totalfare);
jTextFieldTax.setText(DisplayTax);
jTextFieldSubTotal.setText(Stotal);
jTextFieldPrice.setText(Stotal);

    if(jComboBoxTime.getSelectedItemAt().equals("11:30")){
jTextFieldTime2.setText("11:30");
    }else if(jComboBoxTime.getSelectedItemAt().equals("12:30")){
jTextFieldTime2.setText("12:30");
    }
}

```

```

    }

    else if(jComboBoxTime.getSelectedItem().equals("1:30")){
jTextFieldTime2.setText("1:30");

    }else if(jComboBoxTime.getSelectedItem().equals("2:30")){jTextFieldTime2.setText("2:30");}

    else {

        jTextFieldTo.setText(null);
jTextFieldTotal.setText(null);

jTextFieldTax.setText(null);

jTextFieldSubTotal.setText(null);

jTextFieldPrice.setText(null);
jTextFieldForm.setText(null);

jTextFieldDate2.setText(null);
jTextFieldTime2.setText(null);

jTextFieldClass.setText(null);

jTextFieldPassengers2.setText(null);
jTextFieldTicketType.setText(null);
    }
    }

    else if(jComboBoxDestination.getSelectedItem().equals("Badulla")&&
jRadioButtonEconomy1.isSelected()

        && jRadioButtonReturn1.isSelected())&& (!(jTextFieldPassenger1.getText() == null) ){

int Pass = Integer.parseInt(jTextFieldPassenger1.getText());

jTextFieldPassengers2.setText(jTextFieldPassenger1.getText());

jTextFieldTo.setText("Badulla");

jTextFieldClass.setText("Economy");

jTextFieldTicketType.setText("Round Trip");

jTextFieldDate2.setText(jDateChooser.getDate().toString());

jTextFieldForm.setText("Galle");

```

```

miles = 9;

Tfare= miles*fare*2;

Dtax = (Tax*Tfare)/100;

SubTotal = (Dtax + Tfare)*Pass;

String Totalfare= String.format("%d",Tfare);

String DisplayTax = String.format("%d",Dtax);

String Stotal = String.format("%d",SubTotal);

jTextFieldTotal.setText(Totalfare);

jTextFieldTax.setText(DisplayTax);

jTextFieldSubTotal.setText(Stotal);

jTextFieldPrice.setText(Stotal);

if(jComboBoxTime.getSelectedItem().equals("11:30")){
jTextFieldTime2.setText("11:30");
}else if(jComboBoxTime.getSelectedItem().equals("12:30")){
jTextFieldTime2.setText("12:30");
}
else if(jComboBoxTime.getSelectedItem().equals("1:30")){
jTextFieldTime2.setText("1:30");
}else if(jComboBoxTime.getSelectedItem().equals("2:30")){jTextFieldTime2.setText("2:30");}
else {
jTextFieldTo.setText(null);
jTextFieldTotal.setText(null);
jTextFieldTax.setText(null);
jTextFieldSubTotal.setText(null);
jTextFieldPrice.setText(null);
jTextFieldForm.setText(null);
jTextFieldDate2.setText(null);
jTextFieldTime2.setText(null);
jTextFieldClass.setText(null);
jTextFieldPassengers2.setText(null);

```

```

jTextFieldTicketType.setText(null);

}

}

else if(jComboBoxDestination.getSelectedItemAt().equals("Badulla") &&
jRadioButtonFirstClass1.isSelected()

    && jRadioButtonReturn1.isSelected() && (!(jTextFieldPassenger1.getText()== null) )){

    int Pass = Integer.parseInt(jTextFieldPassenger1.getText());

jTextFieldPassengers2.setText(jTextFieldPassenger1.getText());

jTextFieldTo.setText("Badulla");

jTextFieldClass.setText("First Class");

jTextFieldTicketType.setText("Round Trip");

jTextFieldDate2.setText(jDateChooser.getDate().toString());

jTextFieldForm.setText("Galle");

miles = 9;

Tfare= (miles*fare*2)+500;

Dtax = (Tax*Tfare)/100;

SubTotal = (Dtax + Tfare)*Pass;

String Totalfare= String.format("%d",Tfare);

String DisplayTax = String.format("%d",Dtax);

String Stotal = String.format("%d",SubTotal);

jTextFieldTotal.setText(Totalfare);

jTextFieldTax.setText(DisplayTax);

jTextFieldSubTotal.setText(Stotal);

jTextFieldPrice.setText(Stotal);

jTextFieldTicketType.setText("Round Trip");

if(jComboBoxTime.getSelectedItemAt().equals("11:30")){

jTextFieldTime2.setText("11:30");

```

```

    }else if(jComboBoxTime.getSelectedItem().equals("12:30")){
        jTextFieldTime2.setText("12:30");
    }
    else if(jComboBoxTime.getSelectedItem().equals("1:30")){
        jTextFieldTime2.setText("1:30");
    }else if(jComboBoxTime.getSelectedItem().equals("2:30")){jTextFieldTime2.setText("2:30");}
    else {
        jTextFieldTo.setText(null);
        jTextFieldTotal.setText(null);
        jTextFieldTax.setText(null);
        jTextFieldSubTotal.setText(null);
        jTextFieldPrice.setText(null);
        jTextFieldForm.setText(null);
        jTextFieldDate2.setText(null);
        jTextFieldTime2.setText(null);
        jTextFieldClass.setText(null);
        jTextFieldPassengers2.setText(null);
        jTextFieldTicketType.setText(null);
    }
}
else if(!jRadioButtonSingle1.isSelected() && !jRadioButtonReturn1.isSelected()) ||
        (!jRadioButtonFirstClass1.isSelected()&& !jRadioButtonEconomy1.isSelected()) ||
        jComboBoxDestination.getSelectedItem().equals("Select Destination")) ||
jTextFieldPassenger1.getText()==" "){
    jTextFieldTo.setText(null);
    jTextFieldTotal.setText(null);
    jTextFieldTax.setText(null);
    jTextFieldSubTotal.setText(null);
    jTextFieldPrice.setText(null);
    jTextFieldForm.setText(null);

```

```
jTextFieldDate2.setText(null);  
jTextFieldTime2.setText(null);  
jTextFieldClass.setText(null);  
jTextFieldPassengers2.setText(null);  
jTextFieldTicketType.setText(null);  
}
```

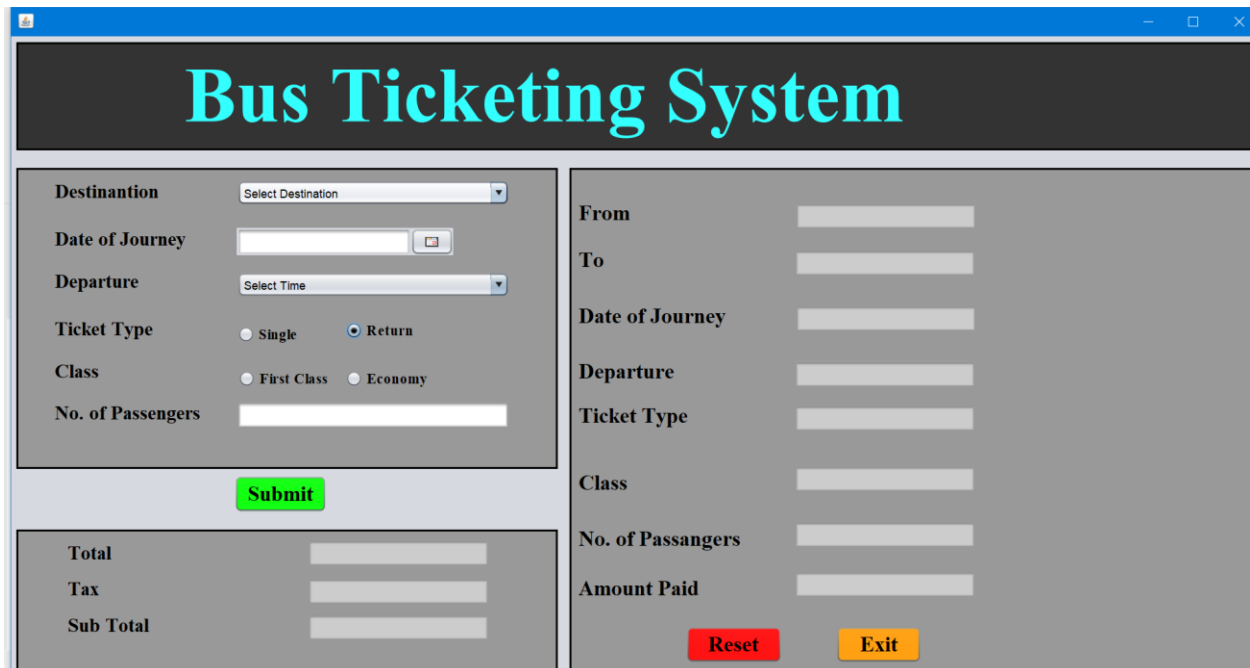
```
else{
```

```
    jTextFieldTo.setText(null);  
    jTextFieldTotal.setText(null);  
    jTextFieldTax.setText(null);  
    jTextFieldSubTotal.setText(null);  
    jTextFieldPrice.setText(null);  
    jTextFieldForm.setText(null);  
    jTextFieldDate2.setText(null);  
    jTextFieldTime2.setText(null);  
    jTextFieldClass.setText(null);  
    jTextFieldPassengers2.setText(null);  
    jTextFieldTicketType.setText(null);  
}  
}
```



Java™

10.RESULT



Bus Ticketing System

Destination: Select Destination

Date of Journey:

Departure: Select Time

Ticket Type: ☐ Single ☒ Return

Class: ☐ First Class ☐ Economy

No. of Passengers:

Total:

Tax:

Sub Total:

From:

To:

Date of Journey:

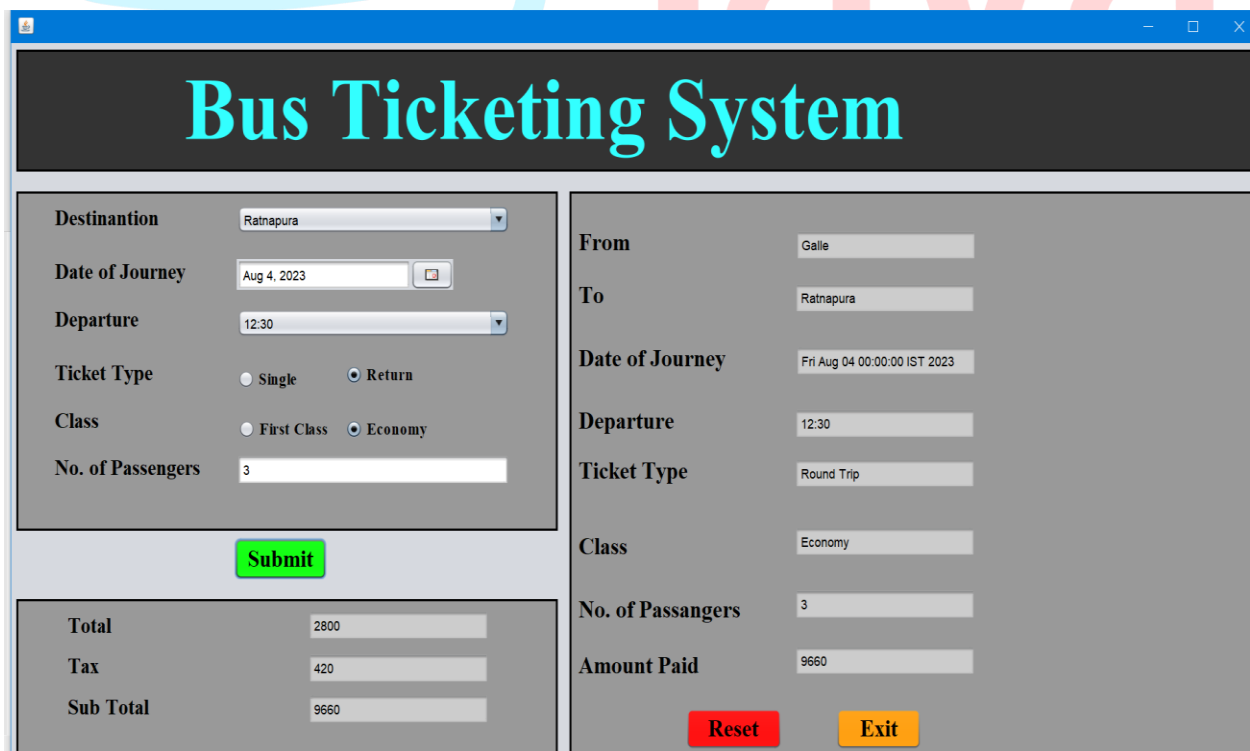
Departure:

Ticket Type:

Class:

No. of Passangers:

Amount Paid:



Bus Ticketing System

Destination: Ratnapura

Date of Journey: Aug 4, 2023

Departure: 12:30

Ticket Type: ☐ Single ☒ Return

Class: ☐ First Class ☒ Economy

No. of Passengers: 3

Total: 2800

Tax: 420

Sub Total: 9660

From: Galle

To: Ratnapura

Date of Journey: Fri Aug 04 00:00:00 IST 2023

Departure: 12:30

Ticket Type: Round Trip

Class: Economy

No. of Passangers: 3

Amount Paid: 9660

LIMITATIONS

- ❖ Absence of database integration.
- ❖ Not well protected.
- ❖ Offline mode only.
- ❖ Single user access.
- ❖ Data security.

FUTURE WORK

1.Database Integration: The most critical future enhancement involves integrating a robust database management system. This would enable the system to store and manage user accounts, booking records, and other crucial data securely and efficiently. A well-designed database would also pave the way for scalability, ensuring seamless operations as the user base grows.

2.Enhanced Security Measures: Implementing comprehensive security measures is paramount. This includes encrypting sensitive data, protecting against common security vulnerabilities like SQL injection, and establishing secure communication protocols. By fortifying the system's security, user data and transactions can be safeguarded, building trust among users.

3.Online Mode Implementation: Expanding the system to operate in both online and offline modes would significantly enhance its accessibility. Users should be able to make bookings and access the system's features even when an internet connection is unavailable, making it more versatile and convenient.

4.Multi-User Support: Overcoming the single user access limitation is crucial for real-world applicability. The system should be re-engineered to support multiple users simultaneously, allowing concurrent booking activities without conflicts.

5.User Authentication and Authorization: Implementing user authentication mechanisms, such as username-password combinations or even more secure methods like two-factor authentication, would bolster the system's security. Additionally, role-based authorization can ensure that users access only the features they are entitled to.

