# JAVA AWT BASED - AIRLINE RESERVATION MANAGEMENT SYSTEM -SQL CONNECTIVITY USING JDBC

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Report

Submitted in partial fulfillment of the

Requirements for the award of the Degree of

### **BACHELOR OF ENGINEERING**

IN

### INFORMATION TECHNOLOGY

By

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## **BONAFIDE CERTIFICATE**

This is to certify that this project report titled 'Airline Reservation Management System' is a project work by Ms. Madireddy Abignya Reddy and Ms. G.R. Freya bearing roll nos. 1602-19-737-001 and 1602-19-737-032 who carried out the project under my supervision in the IV semester for the academic year 2020-2021.

Signature Signature

Internal Examiner External Examiner

#### **ABSTRACT**

This project on Airline Reservation Management System is the automation of registration process of airline system. The system provides information like passenger's information, flight information, list of all passengers, it allows storing and retrieving data related to the airline industry and make transactions related to airline travel etc. The system also allows us to add records when a passenger receives a ticket. For data storage and retrieval, we use SQL Developer Database. It enables us to add any number of records in our database. The project "Airline Reservation Management System" comprises of a large number of flights which belong to a particular airline.

# INTRODUCTION REQUIREMENTS

TABLES	ATTRIBUTES
flight	f_code varchar(10)
	f_name varchar(20)
	src varchar(30)
	dst varchar(30)
passenger	pnr_no varchar(10)
	address varchar(30)
	nationality varchar(15)
	name varchar(20)
	gender varchar(10)
	ph_no varchar(15)
	passport_no varchar(20)
	fl_code varchar(10)
payment	pnr_no varchar(10)
	ph_no varchar(15)
	cheque_no varchar(15)
	card_no varchar(20)
	paid_amt varchar(10)
	pay_date varchar(20)
reservation	pnr_no varchar(10)
	ticket_id varchar(10)
	f_code varchar(10)
	jny_date varchar(20)
	jny_time varchar(10)
	src varchar(20)
	dst varchar(20)
sector	flight_code varchar(20)
	capacity varchar(10)
	class_code varchar(5)
	class_name varchar(20)
<u> </u>	

#### AIM AND PRIORITY OF THE PROJECT

To create a Java GUI based of Google Airline Reservation Management System which take the values related to passenger's information, flight information, list of all passengers etc. These values are to be updated in the database using JDBC connectivity.

### ARCHITECTURE AND TECHNOLOGY

#### **Software Requirement Specifications:**

Operating System Front End Back End Server Documentation: Windows 10

Frontend Software: Java NetBeans 12.0: JDK 14

Backend Software: SQL Developer

#### Java AWT:

Java AWT (Abstract Window Toolkit) is an API to develop GUI or window-based applications in java. Java AWT components are platform-dependent i.e. components are displayed according to the view of operating system. AWT is heavyweight i.e. its components are using the resources of OS. The java. awt package provides classes for AWT API such as TextField, Label, TextArea, RadioButton, CheckBox, Choice, List etc.

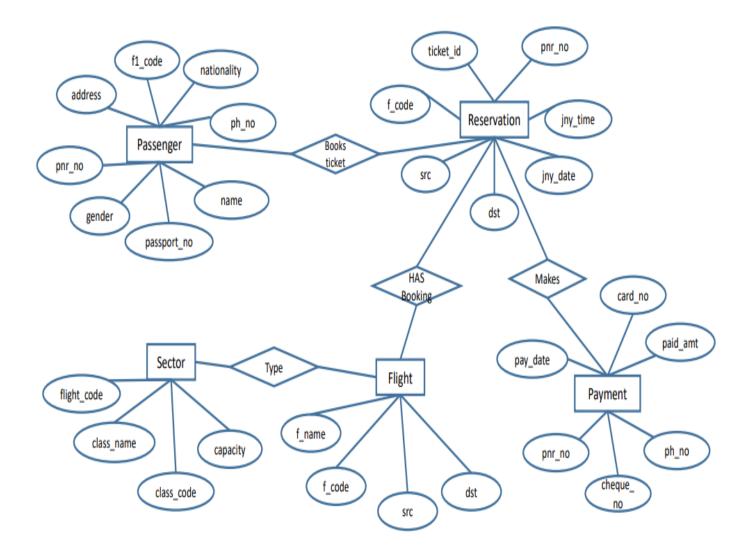
#### **SQL**:

Structure Query Language(SQL) is a database query language used for storing and managing data in Relational DBMS. SQL was the first commercial language introduced for E.F Codd's Relational model of database. Today almost all RDBMS (MySql, Oracle, Infomix, Sybase, MS Access) use SQL as the standard database query language. SQL is used to perform all types of data operations in RDBMS.

## **DESIGN**

## **Entity relationship diagram**

## Airline Reservation Management System



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## **Database Design:**

## **DDL** Operations

## > Flight table

```
Welcome Page 🔻 🔐 Abignya
🕟 🕎 🐚 🔻 📓 📵 | 🔯 🖺 | 👭 🥟 🐚 🚑 | 1.69500005 seconds
Worksheet Query Builder
     create table flight(
     f_code varchar(10), f_name varchar(20), src varchar(30), dst varchar(30));
Script Output X
📌 🤌 🖥 🖺 🔋 | Task completed in 1.695 seconds
Table FLIGHT created.
Name Null? Type
F_CODE VARCHAR2(10)
F_NAME
          VARCHAR2 (20)
SRC
           VARCHAR2(30)
DST
           VARCHAR2 (30)
```

## ➤ Passenger table

```
create table passenger(
     pnr_no varchar(10), address varchar(30),
     nationality varchar(15), name varchar(20), gender varchar(10),
     ph_no varchar(15), passport_no varchar(20), fl_code varchar(10));
      desc passenger;
Script Output X
📌 🧼 뒴 🖺 舅 📗 Task completed in 3.708 seconds
Table PASSENGER created.
           Null? Type
PNR NO
                 VARCHAR2(10)
ADDRESS
                 VARCHAR2 (30)
NATIONALITY
                 VARCHAR2(15)
NAME
                 VARCHAR2 (20)
GENDER
                 VARCHAR2(10)
PH NO
                 VARCHAR2(15)
PASSPORT_NO
                VARCHAR2(20)
FL_CODE
                 VARCHAR2(10)
```

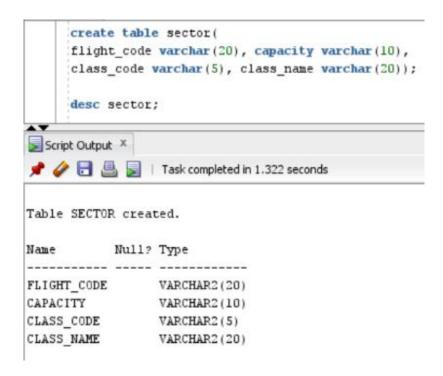
## > Payment table

```
create table payment(
     pnr_no varchar(10), ph_no varchar(15), cheque_no varchar(15),
      card_no varchar(20), paid_amt varchar(10), pay_date DATE);
     desc payment;
Script Output X
📌 🧽 🔚 볼 舅 | Task completed in 1.547 seconds
Table PAYMENT created.
Name
        Null? Type
PNR NO
              VARCHAR2(10)
PH_NO
              VARCHAR2(15)
CHEQUE NO
              VARCHAR2(15)
CARD NO
               VARCHAR2 (20)
PAID_AMT
              VARCHAR2(10)
PAY DATE
              DATE
```

#### > Reservation table

```
create table reservation(
     pnr_no varchar(10), ticket_id varchar(10), f_code varchar(10),
     jny_date DATE, jny_time varchar(10), src varchar(20), dst varchar(20));
     desc reservation;
Script Output X
📌 🧽 🔚 볼 舅 | Task completed in 1.456 seconds
Table RESERVATION created.
Name Null? Type
PNR NO
              VARCHAR2(10)
TICKET_ID
              VARCHAR2(10)
F CODE
              VARCHAR2(10)
JNY DATE
              DATE
JNY_TIME
              VARCHAR2(10)
SRC
              VARCHAR2 (20)
DST
              VARCHAR2 (20)
```

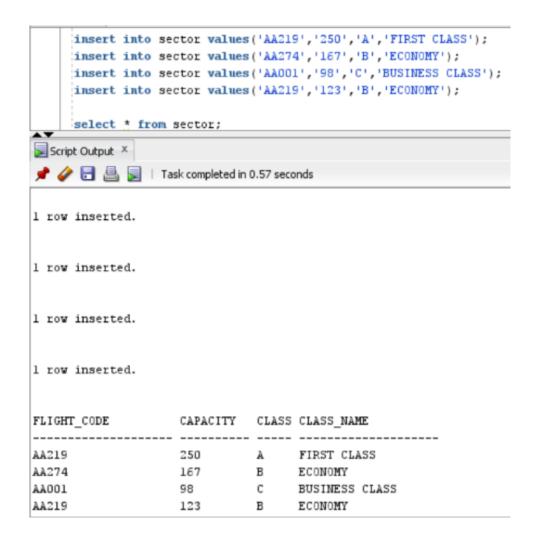
#### > Sector table



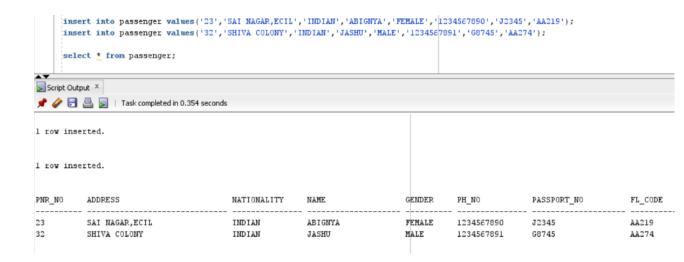
## **DML** Operations

## > Flight table

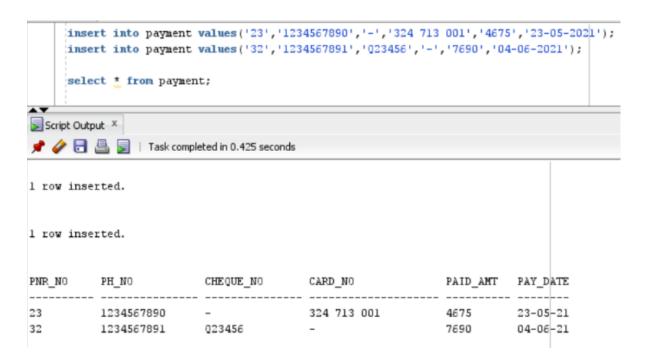
#### > Sector table



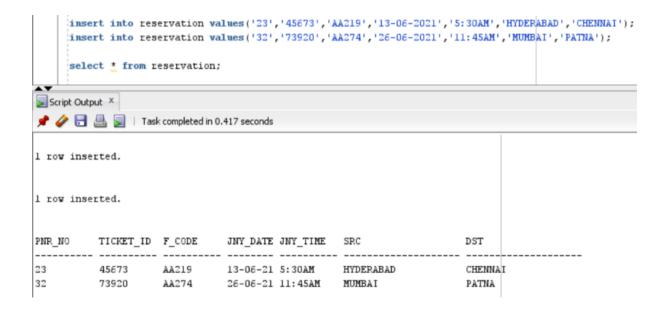
## ➤ Passenger table



## > Payment table



#### > Reservation table



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#### Front end programs and its connectivity

Java Database Connectivity (JDBC) is an application programming interface (API) for the programming language Java, which defines how a client may access a database. It is a Java-based data access technology used for Java database connectivity. It is part of the Java Standard Edition platform, from Oracle Corporation. It provides methods to query and update data in a database and is oriented towards relational databases.

The connection to the database can be performed using Java programming (JDBC API) as:

```
package airline.management.system;
import java.sql.*;
public class conn{
  Connection c;
  Statement s;
  public conn(){
    String dbURL = "jdbc:oracle:thin:@218.248.0.7:1521:RDBMS";
    String username = "it19737001";
    String password = "vasavi";
    try{
       Class.forName("oracle.jdbc.driver.OracleDriver");
       c = DriverManager.getConnection(dbURL, username, password);
       s =c.createStatement();
    }catch(Exception e){
       System.out.println(e);
    }
  }
}
```

Thus, the connection from Java to Oracle database is performed and therefore, can be used for updating tables in the database directly.

#### Mainframe

```
package airline.management.system;
import java.awt.*;
import javax.swing.*;
import java.awt.event.*;
public class Mainframe extends JFrame{
  public static void main(String[] args) {
    new Mainframe().setVisible(true);
  public Mainframe() {
    super("AIRLINE RESERVATION MANAGEMENT SYSTEM");
    initialize();
  private void initialize() {
    setForeground(Color.CYAN);
    setLayout(null);
    JLabel AirlineManagementSystem = new JLabel("WELCOME!");
       AirlineManagementSystem.setForeground(Color.BLUE);
    AirlineManagementSystem.setFont(new Font("Tahoma", Font.PLAIN, 40));
       AirlineManagementSystem.setBounds(240, 150, 1000, 55);
       add(AirlineManagementSystem);
    JMenuBar menuBar = new JMenuBar();
       setJMenuBar(menuBar);
    JMenu FlightDetails = new JMenu("FLIGHT DETAILS ");
    FlightDetails.setForeground(Color.BLUE);
       menuBar.add(FlightDetails);
    JMenuItem InsertFlightDetails = new JMenuItem("Insert");
       FlightDetails.add(InsertFlightDetails);
    JMenuItem UpdateFlightDetails = new JMenuItem("Modify");
       FlightDetails.add(UpdateFlightDetails);
    JMenuItem ViewFlightDetails = new JMenuItem("View");
       FlightDetails.add(ViewFlightDetails);
    JMenuItem DeleteFlightDetails = new JMenuItem("Delete");
       FlightDetails.add(DeleteFlightDetails);
       JMenu PassengerDetails = new JMenu("PASSENGER_DETAILS ");
    PassengerDetails.setForeground(Color.BLUE);
       menuBar.add(PassengerDetails);
```

```
JMenuItem SubmitPassengerDetails = new JMenuItem("Insert");
  PassengerDetails.add(SubmitPassengerDetails);
JMenuItem UpdatePassengerDetails = new JMenuItem("Modify");
  PassengerDetails.add(UpdatePassengerDetails);
JMenuItem DeletePassengerDetails = new JMenuItem("Delete");
  PassengerDetails.add(DeletePassengerDetails);
JMenuItem ViewPassengerDetails = new JMenuItem("View");
  PassengerDetails.add(ViewPassengerDetails);
JMenu PaymentDetails = new JMenu("PAYMENT DETAILS ");
PaymentDetails.setForeground(Color.BLUE);
  menuBar.add(PaymentDetails);
JMenuItem SubmitPaymentDetails = new JMenuItem("Insert");
  PaymentDetails.add(SubmitPaymentDetails);
JMenuItem UpdatePaymentDetails = new JMenuItem("Modify");
  PaymentDetails.add(UpdatePaymentDetails);
JMenuItem ViewPaymentDetails = new JMenuItem("View");
  PaymentDetails.add(ViewPaymentDetails);
JMenuItem DeletePaymentDetails = new JMenuItem("Delete");
  PaymentDetails.add(DeletePaymentDetails);
JMenu ReservationDetails = new JMenu("RESERVATION DETAILS");
ReservationDetails.setForeground(Color.BLUE);
  menuBar.add(ReservationDetails):
JMenuItem SubmitReservationDetails = new JMenuItem("Insert");
  ReservationDetails.add(SubmitReservationDetails);
JMenuItem UpdateReservationDetails = new JMenuItem("Modify");
  ReservationDetails.add(UpdateReservationDetails);
JMenuItem ViewReservationDetails = new JMenuItem("View");
  ReservationDetails.add(ViewReservationDetails);
JMenuItem DeleteReservationDetails = new JMenuItem("Delete");
  ReservationDetails.add(DeleteReservationDetails);
  ViewFlightDetails.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
    new Flight_Info();
  }
  });
InsertFlightDetails.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
    try {
       new Insert_Flight_Info();
          } catch (Exception e) {
```

```
e.printStackTrace();
  }
   });
UpdateFlightDetails.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
    try {
       new Update_Flight_Details();
           } catch (Exception e) {
       e.printStackTrace();
  }
   });
DeleteFlightDetails.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
    new Delete_Flight();
  }
   });
   SubmitPassengerDetails.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
    try {
       new Add_Customer();
           } catch (Exception e) {
       e.printStackTrace();
  }
   });
UpdatePassengerDetails.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
    try {
       new Update_Passenger_Details();
           } catch (Exception e) {
       e.printStackTrace();
  }
   });
ViewPassengerDetails.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
       new Passenger_Details();
     } catch (Exception e) {
       e.printStackTrace();
           }
  }
   });
DeletePassengerDetails.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
    new Delete_Passenger();
```

```
});
SubmitPaymentDetails.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
       new Payment_Form();
           } catch (Exception e) {
       e.printStackTrace();
           }
  }
   });
UpdatePaymentDetails.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
    try {
       new Update Payment Details();
           } catch (Exception e) {
       e.printStackTrace();
  }
   });
ViewPaymentDetails.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
    try {
       new Payment_Details();
           } catch (Exception e) {
       e.printStackTrace();
           }
  }
   });
DeletePaymentDetails.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
    new Delete_Payment();
   });
SubmitReservationDetails.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
    try {
       new Ticket Reservation();
           } catch (Exception e) {
       e.printStackTrace();
  }
   });
UpdateReservationDetails.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
       new Update_Journey_Details();
           } catch (Exception e) {
       e.printStackTrace();
           }
```

```
}
       });
    ViewReservationDetails.addActionListener(new ActionListener(){
       public void actionPerformed(ActionEvent ae){
         try {
            new Journey_Details();
               } catch (Exception e) {
            e.printStackTrace();
               }
       }
       });
    DeleteReservationDetails.addActionListener(new ActionListener(){
       public void actionPerformed(ActionEvent ae){
         new Delete Reservation();
       }
       });
    setSize(700,500);
    setLocation(285,100);
       setVisible(true);
Insert Flight Details
public class Flight_Info extends JFrame{
  private JTable table,table1;
  private JTextField textField;
  public static void main(String[] args){
       new Flight Info().setVisible(true);
  public Flight_Info(){
    getContentPane().setBackground(Color.WHITE);
    getContentPane().setFont(new Font("Tahoma", Font.PLAIN, 13));
       setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
       setSize(860,523);
       setLayout(null);
       setVisible(true);
       JLabel FlightDetails = new JLabel("FLIGHT INFORMATION");
       FlightDetails.setFont(new Font("Tahoma", Font.PLAIN, 31));
       FlightDetails.setForeground(new Color(100, 149, 237));
       FlightDetails.setBounds(160, 20, 570, 35);
       add(FlightDetails);
       JButton btnShow = new JButton("SHOW");
       btnShow.setFont(new Font("Tahoma", Font.PLAIN, 20));
```

```
btnShow.setBounds(520, 20, 120, 30);
       add(btnShow);
    btnShow.addActionListener(new ActionListener() {
       public void actionPerformed(ActionEvent ae) {
         try {
            conn c = new conn();
            String str = "select * from sector";
            ResultSet rs = c.s.executeQuery(str);
            table.setModel(DbUtils.resultSetToTableModel(rs));
         }catch(SQLException e){
            e.printStackTrace();
       }
    });
    table = new JTable();
    table.setBackground(Color.WHITE);
       table.setBounds(23, 100, 800, 400);
    JScrollPane pane = new JScrollPane(table);
       pane.setBounds(23, 100, 800, 400);
    pane.setBackground(Color.WHITE);
    add(pane);
    setDefaultCloseOperation(JFrame.HIDE ON CLOSE);
       setSize(850,600);
    setVisible(true);
    setLocation(210,30);
Delete Flight Details
public class Delete_Flight extends JFrame{
  private JTextField textField;
  public static void main(String[] args){
       new Delete_Flight().setVisible(true);
  }
  public Delete_Flight(){
    getContentPane().setBackground(Color.WHITE);
    getContentPane().setFont(new Font("Tahoma", Font.PLAIN, 13));
       setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       setSize(860,523);
```

```
setVisible(true);
       JLabel Fcode = new JLabel("FLIGHT CODE");
       Fcode.setFont(new Font("Tahoma", Font.PLAIN, 20));
    Fcode.setBounds(80, 100, 200, 30);
       add(Fcode);
       JLabel FlightDetails = new JLabel("DELETE FLIGHT INFORMATION");
       FlightDetails.setFont(new Font("Tahoma", Font.PLAIN, 31));
       FlightDetails.setForeground(new Color(100, 149, 237));
       FlightDetails.setBounds(50, 20, 570, 35);
       add(FlightDetails);
       JButton btnShow = new JButton("DELETE");
       btnShow.setFont(new Font("Tahoma", Font.PLAIN, 20));
    btnShow.setBounds(220, 150, 120, 30);
       add(btnShow);
    btnShow.addActionListener(new ActionListener() {
       public void actionPerformed(ActionEvent ae) {
         String code = textField.getText();
         try {
           conn c = new conn();
           String str = "delete from flight where f_code = "'+code+"'";
           ResultSet rs = c.s.executeQuery(str);
           JOptionPane.showMessageDialog(null,"Flight Deleted");
           setVisible(false);
         }catch(SQLException e){
           e.printStackTrace();
    });
    textField = new JTextField();
    textField.setBounds(220, 100, 200, 30);
       add(textField);
    setDefaultCloseOperation(JFrame.HIDE_ON_CLOSE);
       setSize(550,270);
    setVisible(true);
    setLocation(400,200);
  }
Modify Flight Details
public class Update_Flight_Details extends JFrame{
```

setLayout(null);

```
JTextField_textField_1,textField_2,textField_3,textField_4,textField_5,textField_6;
public Update_Flight_Details(){
  getContentPane().setForeground(Color.BLUE);
  getContentPane().setBackground(Color.WHITE);
  setTitle("Update_Flight_Details");
  setDefaultCloseOperation(JFrame.HIDE ON CLOSE);
  setSize(778,486);
  getContentPane().setLayout(null);
  JLabel FlightCode = new JLabel("Enter FLIGHT CODE of the flight to be updated");
  FlightCode.setFont(new Font("Tahoma", Font.PLAIN, 17));
  FlightCode.setBounds(40, 100, 450, 27);
  add(FlightCode);
  textField = new JTextField();
  textField.setBounds(420, 100, 150, 27);
  add(textField);
  JLabel Capacity = new JLabel("FLIGHT CAPACITY");
  Capacity.setFont(new Font("Tahoma", Font.PLAIN, 17));
  Capacity.setBounds(150, 140, 150, 27);
  add(Capacity);
     textField 1 = new JTextField();
  textField_1.setBounds(300, 140, 150, 27);
  add(textField_1);
  JLabel ClassCode = new JLabel("CLASS CODE");
  ClassCode.setFont(new Font("Tahoma", Font.PLAIN, 17));
  ClassCode.setBounds(150, 180, 150, 27);
  add(ClassCode):
     textField_2 = new JTextField();
  textField 2.setBounds(300, 180, 150, 27);
  add(textField_2);
  JLabel ClassName = new JLabel("CLASS NAME");
  ClassName.setFont(new Font("Tahoma", Font.PLAIN, 17));
  ClassName.setBounds(150, 220, 150, 27);
  add(ClassName);
     textField_3 = new JTextField();
  textField 3.setBounds(300, 220, 150, 27);
  add(textField_3);
  JLabel FlightName = new JLabel("FLIGHT NAME");
  FlightName.setFont(new Font("Tahoma", Font.PLAIN, 17));
  FlightName.setBounds(150, 260, 150, 27);
  add(FlightName);
     textField_4 = new JTextField();
  textField_4.setBounds(300, 260, 150, 27);
  add(textField 4);
  JLabel Source = new JLabel("SOURCE");
  Source.setFont(new Font("Tahoma", Font.PLAIN, 17));
  Source.setBounds(150, 300, 150, 27);
  add(Source);
  textField 5 = new JTextField();
```

```
textField_5.setBounds(300, 300, 150, 27);
       add(textField_5);
       JLabel dst = new JLabel("DESTINATION");
       dst.setFont(new Font("Tahoma", Font.PLAIN, 17));
       dst.setBounds(150, 340, 150, 27);
       add(dst):
       textField_6 = new JTextField();
       textField_6.setBounds(300, 340, 150, 27);
       add(textField 6);
       JButton Next = new JButton("UPDATE");
       Next.setBounds(230, 400, 150, 30);
       Next.setBackground(Color.BLACK);
       Next.setForeground(Color.WHITE);
       add(Next);
       setVisible(true);
       JLabel AddPassengers = new JLabel("UPDATE FLIGHT DETAILS");
       AddPassengers.setForeground(Color.YELLOW);
       AddPassengers.setFont(new Font("Tahoma", Font.PLAIN, 31));
       AddPassengers.setBounds(145, 24, 442, 35);
       add(AddPassengers);
       Next.addActionListener(new ActionListener(){
         public void actionPerformed(ActionEvent ae){
           String flight_code = textField.getText();
           String capacity = textField_1.getText();
           String class code = textField 2.getText();
           String class name = textField 3.getText();
           String f name = textField 4.getText();
           String src = textField 5.getText();
           String dst = textField_6.getText();
           String f_code = textField.getText();
           try {
              conn c = new conn();
              String str = "UPDATE sector SET capacity = "+capacity+", class code =
""+class_code+"",class_name = ""+class_name+"" WHERE flight_code = ""+flight_code+""";
              String str1 = "UPDATE flight SET f_name = "'+f_name+"',src = "'+src+"',dst =
""+dst+"" WHERE f_code = ""+f_code+""";
              c.s.executeUpdate(str);
              c.s.executeUpdate(str1);
              JOptionPane.showMessageDialog(null,"Details Updated");
              setVisible(false);
           } catch (Exception e) {
              e.printStackTrace();
          }
       });
       setSize(630,510);
       setVisible(true);
       setLocation(300,70);
    public static void main(String[] args){
```

```
new Update_Flight_Details();
  }
}
View Flight Details
public class Flight_Info extends JFrame{
  private JTable table,table1;
  private JTextField textField;
  public static void main(String[] args){
       new Flight_Info().setVisible(true);
  public Flight_Info(){
    getContentPane().setBackground(Color.WHITE);
    getContentPane().setFont(new Font("Tahoma", Font.PLAIN, 13));
       setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       setSize(860,523);
       setLayout(null);
       setVisible(true);
       JLabel FlightDetails = new JLabel("FLIGHT INFORMATION");
       FlightDetails.setFont(new Font("Tahoma", Font.PLAIN, 31));
       FlightDetails.setForeground(new Color(100, 149, 237));
       FlightDetails.setBounds(160, 20, 570, 35);
       add(FlightDetails);
       JButton btnShow = new JButton("SHOW");
       btnShow.setFont(new Font("Tahoma", Font.PLAIN, 20));
    btnShow.setBounds(520, 20, 120, 30);
       add(btnShow);
    btnShow.addActionListener(new ActionListener() {
       public void actionPerformed(ActionEvent ae) {
         try {
            conn c = new conn();
            String str = "select * from sector";
            ResultSet rs = c.s.executeQuery(str);
            table.setModel(DbUtils.resultSetToTableModel(rs));
         }catch(SQLException e){
            e.printStackTrace();
     });
    table = new JTable();
    table.setBackground(Color.WHITE);
```

```
table.setBounds(23, 100, 800, 400);
    JScrollPane pane = new JScrollPane(table);
       pane.setBounds(23, 100, 800, 400);
    pane.setBackground(Color.WHITE);
    add(pane);
    setDefaultCloseOperation(JFrame.HIDE_ON_CLOSE);
       setSize(850,600);
    setVisible(true);
    setLocation(210,30);
}
Insert Passenger Details
public class Add_Customer extends JFrame{
       JTextField_textField_1,textField_2,textField_3,textField_4,textField_5,textField_6;
    public Add_Customer(){
      getContentPane().setForeground(Color.BLUE);
      getContentPane().setBackground(Color.WHITE);
       setTitle("ADD CUSTOMER DETAILS");
       setDefaultCloseOperation(JFrame.HIDE_ON_CLOSE);
       setSize(778,486);
      getContentPane().setLayout(null);
      JLabel Passportno = new JLabel("PASSPORT NO");
      Passportno.setFont(new Font("Tahoma", Font.PLAIN, 17));
      Passportno.setBounds(150, 120, 150, 27);
       add(Passportno);
      textField = new JTextField();
       textField.setBounds(300, 120, 150, 27);
       add(textField);
      JButton Next = new JButton("SAVE");
      Next.setBounds(300, 420, 150, 30);
       Next.setBackground(Color.BLACK);
      Next.setForeground(Color.WHITE);
       add(Next);
      JLabel Pnrno = new JLabel("PNR NO");
      Pnrno.setFont(new Font("Tahoma", Font.PLAIN, 17));
      Pnrno.setBounds(150, 160, 150, 27);
       add(Pnrno);
      textField_1 = new JTextField();
      textField_1.setBounds(300, 160, 150, 27);
       add(textField_1);
      JLabel Address = new JLabel("ADDRESS");
```

```
Address.setFont(new Font("Tahoma", Font.PLAIN, 17));
Address.setBounds(150, 200, 200, 27);
add(Address);
textField 2 = new JTextField();
textField_2.setBounds(300, 200, 150, 27);
add(textField 2);
JLabel Nationality = new JLabel("NATIONALITY");
Nationality.setFont(new Font("Tahoma", Font.PLAIN, 17));
Nationality.setBounds(150, 240, 150, 27);
add(Nationality);
textField_3 = new JTextField();
textField 3.setBounds(300, 240, 150, 27);
add(textField 3);
JLabel Name = new JLabel("NAME");
Name.setFont(new Font("Tahoma", Font.PLAIN, 17));
Name.setBounds(150, 270, 280, 27);
add(Name);
textField 4 = new JTextField();
textField_4.setBounds(300, 280, 150, 27);
add(textField_4);
JLabel Gender = new JLabel("GENDER");
Gender.setFont(new Font("Tahoma", Font.PLAIN, 17));
Gender.setBounds(150, 320, 150, 27);
add(Gender);
JRadioButton NewRadioButton = new JRadioButton("MALE");
NewRadioButton.setBackground(Color.WHITE);
NewRadioButton.setBounds(300, 320, 70, 27);
add(NewRadioButton);
JRadioButton Female = new JRadioButton("FEMALE");
Female.setBackground(Color.WHITE);
Female.setBounds(380, 320, 100, 27);
add(Female);
JLabel Phno = new JLabel("PH NO");
Phno.setFont(new Font("Tahoma", Font.PLAIN, 17));
Phno.setBounds(150, 370, 150, 27);
add(Phno);
textField_5 = new JTextField();
textField_5.setBounds(300, 370, 150, 27);
add(textField_5);
setVisible(true);
JLabel AddPassengers = new JLabel("ADD CUSTOMER DETAILS");
AddPassengers.setForeground(Color.GREEN);
AddPassengers.setFont(new Font("Tahoma", Font.PLAIN, 31));
```

```
AddPassengers.setBounds(125, 24, 442, 35);
       add(AddPassengers);
       JLabel Flightcode = new JLabel("FLIGHT CODE");
       Flightcode.setFont(new Font("Tahoma", Font.PLAIN, 17));
       Flightcode.setBounds(150, 80, 150, 27);
       add(Flightcode);
       textField_6 = new JTextField();
       textField_6.setBounds(300, 80, 150, 27);
       add(textField_6);
       Next.addActionListener(new ActionListener(){
          public void actionPerformed(ActionEvent ae){
            String passport_No = textField.getText();
            String pnr_no = textField_1.getText();
            String address = textField 2.getText();
            String nationality = textField_3.getText();
            String name = textField_4.getText();
            String fl_code = textField_6.getText();
            String gender = null;
            String ph_no = textField_5.getText();
            if(NewRadioButton.isSelected()){
              gender = "male";
            }else if(Female.isSelected()){
               gender = "female";
            try {
              conn c = new conn();
              String str = "INSERT INTO passenger values( ""+pnr_no+"", ""+address+"",
"'+nationality+"',"'+name+"', "'+gender+"', ""+ph_no+"', ""+passport_No+"', ""+fl_code+"')";
              c.s.executeUpdate(str);
              JOptionPane.showMessageDialog(null,"Customer Added");
              setVisible(false);
            } catch (Exception e) {
              e.printStackTrace();
          }
       });
       setSize(630,600);
       setVisible(true);
       setLocation(320,50);
  public static void main(String[] args){
     new Add_Customer();
  }
```

#### **Delete Passenger Details**

```
public class Delete_Passenger extends JFrame{
  private JTextField textField;
  public static void main(String[] args){
       new Delete_Passenger().setVisible(true);
  public Delete_Passenger(){
    getContentPane().setBackground(Color.WHITE);
    getContentPane().setFont(new Font("Tahoma", Font.PLAIN, 13));
       setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       setSize(860,523);
       setLayout(null);
       setVisible(true);
       JLabel Fcode = new JLabel("PNR CODE");
       Fcode.setFont(new Font("Tahoma", Font.PLAIN, 20));
    Fcode.setBounds(80, 100, 200, 30);
       add(Fcode);
       JLabel FlightDetails = new JLabel("DELETE PASSENGER INFORMATION");
       FlightDetails.setFont(new Font("Tahoma", Font.PLAIN, 31));
       FlightDetails.setForeground(new Color(100, 149, 237));
       FlightDetails.setBounds(20, 20, 570, 35);
       add(FlightDetails);
       JButton btnShow = new JButton("DELETE");
       btnShow.setFont(new Font("Tahoma", Font.PLAIN, 20));
    btnShow.setBounds(220, 150, 120, 30);
       add(btnShow);
    btnShow.addActionListener(new ActionListener() {
       public void actionPerformed(ActionEvent ae) {
         String code = textField.getText();
         try {
           conn c = new conn();
           String str = "delete from passenger where pnr_no = "+code+"";
           ResultSet rs = c.s.executeQuery(str);
           JOptionPane.showMessageDialog(null, "Passenger Deleted");
           setVisible(false);
         }catch(SQLException e){
           e.printStackTrace();
    });
    textField = new JTextField();
```

```
textField.setBounds(220, 100, 200, 30);
       add(textField);
    setDefaultCloseOperation(JFrame.HIDE ON CLOSE);
       setSize(550.270):
    setVisible(true);
    setLocation(400,200);
  }
}
Modify Passenger Details
public class Update_Passenger_Details extends JFrame{
       JTextField_textField_1,textField_2,textField_3,textField_4,textField_5,textField_6;
    public Update Passenger Details(){
       getContentPane().setForeground(Color.BLUE);
      getContentPane().setBackground(Color.WHITE);
      setTitle("UPDATE CUSTOMER DETAILS");
       setDefaultCloseOperation(JFrame.HIDE_ON_CLOSE);
       setSize(778,486);
       getContentPane().setLayout(null);
      JLabel Passportno = new JLabel("PASSPORT NO");
      Passportno.setFont(new Font("Tahoma", Font.PLAIN, 17));
      Passportno.setBounds(150, 120, 150, 27);
      add(Passportno);
      textField = new JTextField();
      textField.setBounds(300, 120, 150, 27);
      add(textField);
      JButton Next = new JButton("UPDATE");
      Next.setBounds(300, 420, 150, 30);
      Next.setBackground(Color.BLACK);
      Next.setForeground(Color.WHITE);
       add(Next);
      JLabel Pnrno = new JLabel("Enter PNR NO of the passenger to be updated");
      Pnrno.setFont(new Font("Tahoma", Font.PLAIN, 17));
      Pnrno.setBounds(20, 80, 500, 27);
      add(Pnrno);
      textField_1 = new JTextField();
      textField_1.setBounds(400, 80, 150, 27);
      add(textField_1);
      JLabel Address = new JLabel("ADDRESS");
       Address.setFont(new Font("Tahoma", Font.PLAIN, 17));
       Address.setBounds(150, 200, 200, 27);
       add(Address);
```

```
textField_2 = new JTextField();
textField_2.setBounds(300, 200, 150, 27);
add(textField_2);
JLabel Nationality = new JLabel("NATIONALITY");
Nationality.setFont(new Font("Tahoma", Font.PLAIN, 17));
Nationality.setBounds(150, 240, 150, 27);
add(Nationality);
textField_3 = new JTextField();
textField 3.setBounds(300, 240, 150, 27);
add(textField_3);
JLabel Name = new JLabel("NAME");
Name.setFont(new Font("Tahoma", Font.PLAIN, 17));
Name.setBounds(150, 280, 280, 27);
add(Name);
textField_4 = new JTextField();
textField_4.setBounds(300, 280, 150, 27);
add(textField_4);
JLabel Gender = new JLabel("GENDER");
Gender.setFont(new Font("Tahoma", Font.PLAIN, 17));
Gender.setBounds(150, 320, 150, 27);
add(Gender);
JRadioButton NewRadioButton = new JRadioButton("MALE");
NewRadioButton.setBackground(Color.WHITE);
NewRadioButton.setBounds(300, 320, 70, 27);
add(NewRadioButton):
JRadioButton Female = new JRadioButton("FEMALE");
Female.setBackground(Color.WHITE);
Female.setBounds(380, 320, 100, 27);
add(Female);
JLabel Phno = new JLabel("PH NO");
Phno.setFont(new Font("Tahoma", Font.PLAIN, 17));
Phno.setBounds(150, 370, 150, 27);
add(Phno);
textField_5 = new JTextField();
textField_5.setBounds(300, 370, 150, 27);
add(textField_5);
setVisible(true);
JLabel AddPassengers = new JLabel("UPDATE CUSTOMER DETAILS");
AddPassengers.setForeground(Color.GREEN);
AddPassengers.setFont(new Font("Tahoma", Font.PLAIN, 31));
AddPassengers.setBounds(110, 24, 442, 35);
add(AddPassengers);
JLabel Flightcode = new JLabel("FLIGHT CODE");
```

```
Flightcode.setFont(new Font("Tahoma", Font.PLAIN, 17));
       Flightcode.setBounds(150, 160, 150, 27);
       add(Flightcode);
       textField 6 = new JTextField();
       textField_6.setBounds(300, 160, 150, 27);
       add(textField 6);
       Next.addActionListener(new ActionListener(){
         public void actionPerformed(ActionEvent ae){
            String passport No = textField.getText();
            String pnr_no = textField_1.getText();
            String address = textField_2.getText();
            String nationality = textField_3.getText();
            String name = textField_4.getText();
            String fl code = textField 6.getText();
            String gender = null;
            String ph_no = textField_5.getText();
            if(NewRadioButton.isSelected()){
              gender = "male";
            }else if(Female.isSelected()){
              gender = "female";
            try {
              conn c = new conn();
              String str = "UPDATE passenger SET address = "+address+", nationality =
"'+nationality+"',name = "'+name+"',gender = "'+gender+"',ph_no = "'+ph_no+"',passport_No =
""+passport_No+"',fl_code = ""+fl_code+"" WHERE pnr_no = ""+pnr_no+""";
              c.s.executeUpdate(str);
              JOptionPane.showMessageDialog(null,"Customer Details updated");
              setVisible(false);
            } catch (Exception e) {
              e.printStackTrace();
          }
       });
       setSize(630,600);
       setVisible(true);
       setLocation(320,50);
  public static void main(String[] args){
    new Update_Passenger_Details();
  }
}
View Passenger Details
public class Passenger_Details extends JFrame{
```

```
JTable table;
JButton Show:
private JTextField textField;
public static void main(String[] args){
  new Passenger_Details();
public Passenger_Details(){
  setTitle("Passenger_Details");
     getContentPane().setBackground(Color.WHITE);
     setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
     setLayout(null);
     JButton Show = new JButton("SHOW");
     Show.setBounds(680, 30, 100, 30);
     add(Show);
     JLabel ReservationDetails = new JLabel("PASSENGER DETAILS");
     ReservationDetails.setForeground(Color.BLUE);
     ReservationDetails.setFont(new Font("Tahoma", Font.PLAIN, 31));
     ReservationDetails.setBounds(280, 27, 359, 31);
     add(ReservationDetails);
     Show.addActionListener(new ActionListener(){
    public void actionPerformed(ActionEvent ae){
             try{
         conn c = new conn();
         String str = "select * from passenger";
         ResultSet rs=c.s.executeQuery(str);
         table.setModel(DbUtils.resultSetToTableModel(rs));
             }catch(Exception e){}
    }
     });
  table = new JTable();
  table.setBackground(Color.WHITE);
     table.setBounds(23, 300, 800, 300);
  JScrollPane pane = new JScrollPane(table);
     pane.setBounds(23, 100, 800, 450);
  pane.setBackground(Color.WHITE);
  add(pane);
  setDefaultCloseOperation(JFrame.HIDE_ON_CLOSE);
     setSize(860,600);
  setLocation(210,30);
     setVisible(true);
```

```
}
```

#### **Insert Payment Details**

```
public class Passenger_Details extends JFrame{
  JTable table:
  JButton Show:
  private JTextField textField;
  public static void main(String[] args){
    new Passenger_Details();
  public Passenger_Details(){
    setTitle("Passenger_Details");
       getContentPane().setBackground(Color.WHITE);
       setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       setLayout(null);
       JButton Show = new JButton("SHOW");
       Show.setBounds(680, 30, 100, 30);
       add(Show);
       JLabel ReservationDetails = new JLabel("PASSENGER DETAILS");
       ReservationDetails.setForeground(Color.BLUE);
       ReservationDetails.setFont(new Font("Tahoma", Font.PLAIN, 31));
       ReservationDetails.setBounds(280, 27, 359, 31);
       add(ReservationDetails);
       Show.addActionListener(new ActionListener(){
       public void actionPerformed(ActionEvent ae){
               try{
           conn c = new conn();
           String str = "select * from passenger";
           ResultSet rs=c.s.executeQuery(str);
           table.setModel(DbUtils.resultSetToTableModel(rs));
               }catch(Exception e){}
       }
       });
    table = new JTable();
    table.setBackground(Color.WHITE);
       table.setBounds(23, 300, 800, 300);
    JScrollPane pane = new JScrollPane(table);
       pane.setBounds(23, 100, 800, 450);
```

```
pane.setBackground(Color.WHITE);
    add(pane);
    setDefaultCloseOperation(JFrame.HIDE_ON_CLOSE);
       setSize(860.600):
    setLocation(210,30);
       setVisible(true);
Delete Payment Details
public class Passenger_Details extends JFrame{
  JTable table;
  JButton Show:
  private JTextField textField;
  public static void main(String[] args){
    new Passenger_Details();
  public Passenger_Details(){
    setTitle("Passenger_Details");
       getContentPane().setBackground(Color.WHITE);
       setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       setLayout(null);
       JButton Show = new JButton("SHOW");
       Show.setBounds(680, 30, 100, 30);
       add(Show);
       JLabel ReservationDetails = new JLabel("PASSENGER DETAILS");
       ReservationDetails.setForeground(Color.BLUE);
       ReservationDetails.setFont(new Font("Tahoma", Font.PLAIN, 31));
       ReservationDetails.setBounds(280, 27, 359, 31);
       add(ReservationDetails);
       Show.addActionListener(new ActionListener(){
       public void actionPerformed(ActionEvent ae){
               try{
           conn c = new conn();
           String str = "select * from passenger";
           ResultSet rs=c.s.executeQuery(str);
           table.setModel(DbUtils.resultSetToTableModel(rs));
               }catch(Exception e){}
       }
       });
```

```
table = new JTable();
    table.setBackground(Color.WHITE);
       table.setBounds(23, 300, 800, 300);
    JScrollPane pane = new JScrollPane(table);
       pane.setBounds(23, 100, 800, 450);
    pane.setBackground(Color.WHITE);
    add(pane);
    setDefaultCloseOperation(JFrame.HIDE_ON_CLOSE);
       setSize(860,600);
    setLocation(210,30);
       setVisible(true);
  }
}
Modify Payment Details
public class Passenger_Details extends JFrame{
  JTable table;
  JButton Show:
  private JTextField textField;
  public static void main(String[] args){
    new Passenger Details();
  public Passenger_Details(){
    setTitle("Passenger_Details");
       getContentPane().setBackground(Color.WHITE);
       setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
       setLayout(null);
       JButton Show = new JButton("SHOW");
       Show.setBounds(680, 30, 100, 30);
       add(Show);
       JLabel ReservationDetails = new JLabel("PASSENGER DETAILS");
       ReservationDetails.setForeground(Color.BLUE);
       ReservationDetails.setFont(new Font("Tahoma", Font.PLAIN, 31));
       ReservationDetails.setBounds(280, 27, 359, 31);
       add(ReservationDetails);
       Show.addActionListener(new ActionListener(){
       public void actionPerformed(ActionEvent ae){
               try{
           conn c = new conn();
           String str = "select * from passenger";
```

```
ResultSet rs=c.s.executeQuery(str);
           table.setModel(DbUtils.resultSetToTableModel(rs));
               }catch(Exception e){}
       }
       });
    table = new JTable();
    table.setBackground(Color.WHITE);
       table.setBounds(23, 300, 800, 300);
    JScrollPane pane = new JScrollPane(table);
       pane.setBounds(23, 100, 800, 450);
    pane.setBackground(Color.WHITE);
    add(pane);
    setDefaultCloseOperation(JFrame.HIDE_ON_CLOSE);
       setSize(860,600);
    setLocation(210,30);
       setVisible(true);
  }
View Payment Details
public class Payment_Details extends JFrame{
  JTextField textField:
  JTable table;
  JLabel Sector;
  JLabel FlightCode, Capacity, Classcode, Classname, label;
  public static void main(String[] args) {
    new Payment Details();
  public Payment_Details(){
       initialize();
  private void initialize(){
    setTitle("PAYMENT DETAILS");
       getContentPane().setBackground(Color.WHITE);
       setSize(860,486);
       setLayout(null);
    table = new JTable();
       table.setBounds(45, 329, 766, 87);
       add(table);
       JButton Show = new JButton("SHOW");
       Show.setFont(new Font("Tahoma", Font.PLAIN, 17));
    Show.setBackground(Color.BLACK);
    Show.setForeground(Color.WHITE);
       Show.setBounds(530, 150, 150, 26);
       add(Show);
```

```
Sector = new JLabel("PAYMENT DETAILS");
  Sector.setForeground(Color.BLUE);
  Sector.setFont(new Font("Tahoma", Font.PLAIN, 31));
  Sector.setBounds(200, 145, 300, 39);
  add(Sector);
  FlightCode = new JLabel("PNR_NO");
  FlightCode.setFont(new Font("Tahoma", Font.PLAIN, 13));
  FlightCode.setBounds(84, 292, 108, 26);
  add(FlightCode);
  Capacity = new JLabel("PAID_AMOUNT");
  Capacity.setFont(new Font("Tahoma", Font.PLAIN, 13));
  Capacity.setBounds(183, 298, 92, 14);
  add(Capacity);
  Classcode = new JLabel("PAY_DATE");
  Classcode.setFont(new Font("Tahoma", Font.PLAIN, 13));
  Classcode.setBounds(322, 294, 101, 24);
  add(Classcode);
  Classname = new JLabel("CHEQUE NO");
  Classname.setFont(new Font("Tahoma", Font.PLAIN, 13));
  Classname.setBounds(455, 298, 114, 14);
  add(Classname);
  JLabel Cardno = new JLabel("CARD_NO");
  Cardno.setFont(new Font("Tahoma", Font.PLAIN, 13));
  Cardno.setBounds(602, 299, 101, 19);
  add(Cardno);
  JLabel Phoneno = new JLabel("PHONE_NO");
  Phoneno.setFont(new Font("Tahoma", Font.PLAIN, 13));
  Phoneno.setBounds(712, 294, 86, 24);
  add(Phoneno);
setVisible(true);
  Show.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
    try {
       conn c = new conn();
       String str = "select pnr_no,paid_amt,pay_date,cheque_no,card_no,ph_no from payment";
       ResultSet rs = c.s.executeQuery(str);
      table.setModel(DbUtils.resultSetToTableModel(rs));
          }catch(SQLException e) {
       e.printStackTrace();
  }
  });
  setSize(860,600);
```

```
setLocation(210,30);
       setVisible(true);
  }
}
Insert Reservation Details
public class Ticket_Reservation extends JFrame{
       JTextField textField 1,textField 2,textField 3,textField 4,textField 5,textField 6;
    public Ticket_Reservation(){
       getContentPane().setForeground(Color.BLUE);
       getContentPane().setBackground(Color.WHITE);
       setTitle("Journey_Info");
       setDefaultCloseOperation(JFrame.HIDE ON CLOSE);
       setSize(778,486);
       getContentPane().setLayout(null);
       JLabel PnrNo = new JLabel("PNR NO");
       PnrNo.setFont(new Font("Tahoma", Font.PLAIN, 17));
       PnrNo.setBounds(150, 100, 150, 27);
       add(PnrNo);
       textField = new JTextField();
       textField.setBounds(300, 100, 150, 27);
       add(textField);
       JLabel TicketId = new JLabel("TICKET ID");
       TicketId.setFont(new Font("Tahoma", Font.PLAIN, 17));
       TicketId.setBounds(150, 340, 150, 27);
       add(TicketId);
       textField_1 = new JTextField();
       textField_1.setBounds(300, 340, 150, 27);
       add(textField_1);
       JLabel JnyDate = new JLabel("JORNEY DATE");
       JnyDate.setFont(new Font("Tahoma", Font.PLAIN, 17));
       JnyDate.setBounds(150, 180, 150, 27);
       add(JnyDate);
       textField_2 = new JTextField();
       textField_2.setBounds(300, 180, 150, 27);
       add(textField_2);
```

JLabel JnyTime = new JLabel("JORNEY TIME");

JnyTime.setBounds(150, 220, 150, 27);

textField\_3.setBounds(300, 220, 150, 27);

textField\_3 = new JTextField();

add(JnyTime);

add(textField\_3);

JnyTime.setFont(new Font("Tahoma", Font.PLAIN, 17));

```
JLabel src = new JLabel("SOURCE");
      src.setFont(new Font("Tahoma", Font.PLAIN, 17));
      src.setBounds(150, 260, 150, 27);
       add(src);
      textField 4 = new JTextField();
      textField_4.setBounds(300, 260, 150, 27);
       add(textField_4);
      JLabel dst = new JLabel("DESTINATION");
       dst.setFont(new Font("Tahoma", Font.PLAIN, 17));
       dst.setBounds(150, 300, 150, 27);
       add(dst);
      textField 5 = new JTextField();
       textField_5.setBounds(300, 300, 150, 27);
       add(textField_5);
      JLabel FlightCode = new JLabel("FLIGHT CODE");
      FlightCode.setFont(new Font("Tahoma", Font.PLAIN, 17));
      FlightCode.setBounds(150, 140, 150, 27);
       add(FlightCode);
      textField_6 = new JTextField();
       textField_6.setBounds(300, 140, 150, 27);
       add(textField_6);
      JButton Next = new JButton("SUBMIT");
      Next.setBounds(230, 400, 150, 30);
      Next.setBackground(Color.BLACK);
      Next.setForeground(Color.WHITE);
       add(Next);
       setVisible(true);
      JLabel AddPassengers = new JLabel("ADD JOURNEY DETAILS");
       AddPassengers.setForeground(Color.YELLOW);
       AddPassengers.setFont(new Font("Tahoma", Font.PLAIN, 31));
       AddPassengers.setBounds(130, 24, 442, 35);
       add(AddPassengers);
      Next.addActionListener(new ActionListener(){
         public void actionPerformed(ActionEvent ae){
           String pnr code = textField.getText();
           String ticket_id = textField_1.getText();
           String f code = textField 6.getText();
           String jny_date = textField_2.getText();
           String iny_time = textField_3.getText();
           String src = textField_4.getText();
           String dst = textField_5.getText();
           try {
             conn c = new conn();
             String str = "INSERT INTO reservation values( "'+pnr_code+"', "'+ticket_id+"',
"'+f_code+"', "'+jny_date+"', "'+jny_time+"', "'+src+"', "'+dst+"')";
             c.s.executeUpdate(str);
```

```
JOptionPane.showMessageDialog(null,"Details Inserted");
              setVisible(false);
           } catch (Exception e) {
             e.printStackTrace();
       });
       setSize(630,510);
       setVisible(true);
       setLocation(300,70);
  public static void main(String[] args){
    new Ticket Reservation();
}
Delete Reservation Details
public class Delete_Reservation extends JFrame{
  private JTextField textField;
  public static void main(String[] args){
       new Delete_Reservation().setVisible(true);
  public Delete_Reservation(){
    getContentPane().setBackground(Color.WHITE);
    getContentPane().setFont(new Font("Tahoma", Font.PLAIN, 13));
       setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       setSize(860,523);
       setLayout(null);
       setVisible(true);
       JLabel Fcode = new JLabel("PNR CODE");
       Fcode.setFont(new Font("Tahoma", Font.PLAIN, 20));
    Fcode.setBounds(80, 100, 200, 30);
       add(Fcode);
       JLabel FlightDetails = new JLabel("DELETE RESERVATION INFORMATION");
       FlightDetails.setFont(new Font("Tahoma", Font.PLAIN, 28));
       FlightDetails.setForeground(new Color(100, 149, 237));
       FlightDetails.setBounds(30, 20, 570, 35);
       add(FlightDetails);
       JButton btnShow = new JButton("DELETE");
       btnShow.setFont(new Font("Tahoma", Font.PLAIN, 20));
    btnShow.setBounds(220, 150, 120, 30);
       add(btnShow);
    btnShow.addActionListener(new ActionListener() {
       public void actionPerformed(ActionEvent ae) {
         String code = textField.getText();
```

```
try {
           conn c = new conn();
           String str = "delete from reservation where pnr no = "+code+"";
           ResultSet rs = c.s.executeQuery(str);
           JOptionPane.showMessageDialog(null,"Reservation Deleted");
           setVisible(false);
         }catch(SQLException e){
           e.printStackTrace();
       }
    });
    textField = new JTextField();
    textField.setBounds(220, 100, 200, 30);
       add(textField);
    setDefaultCloseOperation(JFrame.HIDE_ON_CLOSE);
       setSize(550,270);
    setVisible(true):
    setLocation(400,200);
  }
}
Modify Reservation Details
public class Update_Journey_Details extends JFrame{
       JTextField_textField_1,textField_2,textField_3,textField_4,textField_5,textField_6;
    public Update_Journey_Details(){
       getContentPane().setForeground(Color.BLUE);
       getContentPane().setBackground(Color.WHITE);
       setTitle("Update_Journey_Info");
       setDefaultCloseOperation(JFrame.HIDE_ON_CLOSE);
       setSize(778,486);
       getContentPane().setLayout(null);
      JLabel PnrNo = new JLabel("Enter PNR NO of passenger to update journey details");
       PnrNo.setFont(new Font("Tahoma", Font.PLAIN, 17));
       PnrNo.setBounds(20, 100, 500, 27);
       add(PnrNo);
       textField = new JTextField();
       textField.setBounds(440, 100, 150, 27);
       add(textField);
      JLabel TicketId = new JLabel("TICKET ID");
      TicketId.setFont(new Font("Tahoma", Font.PLAIN, 17));
       TicketId.setBounds(150, 340, 150, 27);
       add(TicketId);
```

```
textField_1 = new JTextField();
textField_1.setBounds(300, 340, 150, 27);
add(textField 1);
JLabel JnyDate = new JLabel("JORNEY DATE");
JnyDate.setFont(new Font("Tahoma", Font.PLAIN, 17));
JnyDate.setBounds(150, 180, 150, 27);
add(JnyDate);
textField 2 = new JTextField();
textField_2.setBounds(300, 180, 150, 27);
add(textField 2);
JLabel JnyTime = new JLabel("JORNEY TIME");
JnyTime.setFont(new Font("Tahoma", Font.PLAIN, 17));
JnyTime.setBounds(150, 220, 150, 27);
add(JnyTime);
textField_3 = new JTextField();
textField_3.setBounds(300, 220, 150, 27);
add(textField_3);
JLabel src = new JLabel("SOURCE");
src.setFont(new Font("Tahoma", Font.PLAIN, 17));
src.setBounds(150, 260, 150, 27);
add(src);
textField 4 = new JTextField();
textField 4.setBounds(300, 260, 150, 27);
add(textField 4);
JLabel dst = new JLabel("DESTINATION");
dst.setFont(new Font("Tahoma", Font.PLAIN, 17));
dst.setBounds(150, 300, 150, 27);
add(dst);
textField 5 = new JTextField();
textField_5.setBounds(300, 300, 150, 27);
add(textField_5);
JLabel FlightCode = new JLabel("FLIGHT CODE");
FlightCode.setFont(new Font("Tahoma", Font.PLAIN, 17));
FlightCode.setBounds(150, 140, 150, 27);
add(FlightCode);
textField_6 = new JTextField();
textField_6.setBounds(300, 140, 150, 27);
add(textField_6);
JButton Next = new JButton("UPDATE");
Next.setBounds(230, 400, 150, 30);
Next.setBackground(Color.BLACK);
Next.setForeground(Color.WHITE);
add(Next);
```

```
setVisible(true);
       JLabel AddPassengers = new JLabel("UPDATE JOURNEY DETAILS");
       AddPassengers.setForeground(Color.RED);
       AddPassengers.setFont(new Font("Tahoma", Font.PLAIN, 31));
       AddPassengers.setBounds(130, 24, 442, 35);
       add(AddPassengers);
       Next.addActionListener(new ActionListener(){
         public void actionPerformed(ActionEvent ae){
            String pnr code = textField.getText();
            String ticket_id = textField_1.getText();
            String f code = textField 6.getText();
            String jny_date = textField_2.getText();
            String jny_time = textField_3.getText();
            String src = textField 4.getText();
            String dst = textField_5.getText();
            try {
              conn c = new conn();
              String str = "UPDATE reservation SET ticket_id = ""+ticket_id+"",f_code =
""+f_code+"",jny_date = ""+jny_date+"",jny_time = ""+jny_time+"",src = ""+src+"",dst = ""+dst+"
WHERE pnr_no = "'+pnr_code+"'";
              c.s.executeUpdate(str);
              JOptionPane.showMessageDialog(null,"Journey Details Updated");
              setVisible(false);
            } catch (Exception e) {
              e.printStackTrace();
       });
       setSize(630,510);
       setVisible(true);
       setLocation(300,70);
  public static void main(String[] args){
    new Update_Journey_Details();
}
View Journey Details
public class Journey_Details extends JFrame{
  JTable table;
  JLabel ReservationDetails, Pnrno, Ticketid, Fcode, Jnydate, Jnytime, Source, Destination, label, label1;
  JButton Show:
  private JTextField textField;
  public static void main(String[] args){
    new Journey_Details();
  public Journey_Details(){
    setTitle("JOURNEY_DETAILS");
```

```
getContentPane().setBackground(Color.WHITE);
       setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       setLayout(null);
       JLabel Source = new JLabel("SOURCE");
       Source.setFont(new Font("Tahoma", Font.PLAIN, 19));
       Source.setBounds(60, 100, 150, 27);
       add(Source);
    JLabel Destination = new JLabel("DESTINATION");
       Destination.setFont(new Font("Tahoma", Font.PLAIN, 19));
       Destination.setBounds(350, 100, 150, 27);
       add(Destination);
       JButton Show = new JButton("SHOW");
       Show.setBounds(680, 100, 100, 30);
       add(Show);
       JLabel ReservationDetails = new JLabel("JOURNEY DETAILS");
       ReservationDetails.setForeground(Color.BLUE);
       ReservationDetails.setFont(new Font("Tahoma", Font.PLAIN, 31));
       ReservationDetails.setBounds(280, 27, 359, 31);
       add(ReservationDetails);
       String[] items1 = {"BANGALORE", "MUMBAI", "CHENNAI",
"PATNA", "DELHI", "HYDERABAD" };
       JComboBox comboBox = new JComboBox(items1);
       comboBox.setBounds(150, 100, 150, 27);
       add(comboBox);
       String[] items2 = {"BANGALORE", "MUMBAI", "CHENNAI",
"PATNA", "DELHI", "HYDERABAD" };
       JComboBox comboBox_1 = new JComboBox(items2);
       comboBox_1.setBounds(500, 100, 150, 27);
       add(comboBox 1);
       Show.addActionListener(new ActionListener(){
      public void actionPerformed(ActionEvent ae){
           String src = (String) comboBox.getSelectedItem();
           String dst = (String) comboBox 1.getSelectedItem();
           conn c = new conn();
           String str = "select pnr_no,ticket_id,f_code,jny_date,jny_time,src,dst from reservation
where src = ""+src+"" and dst = ""+dst+""";
           ResultSet rs=c.s.executeQuery(str);
           table.setModel(DbUtils.resultSetToTableModel(rs));
               }catch(Exception e){}
      }
       });
    table = new JTable();
```

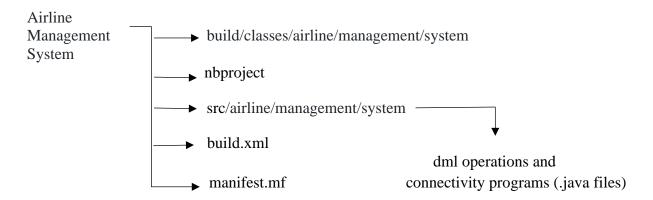
```
table.setBackground(Color.WHITE);
    table.setBounds(23, 300, 800, 300);

JScrollPane pane = new JScrollPane(table);
    pane.setBounds(23, 170, 800, 350);
    pane.setBackground(Color.WHITE);
    add(pane);

setDefaultCloseOperation(JFrame.HIDE_ON_CLOSE);
    setSize(860,600);
    setLocation(210,30);
    setVisible(true);
}
```

### Github links and folder structure:

Link: <a href="https://github.com/Abignya/Airline-management-system">https://github.com/freyarachel/Airline-Management-System</a>

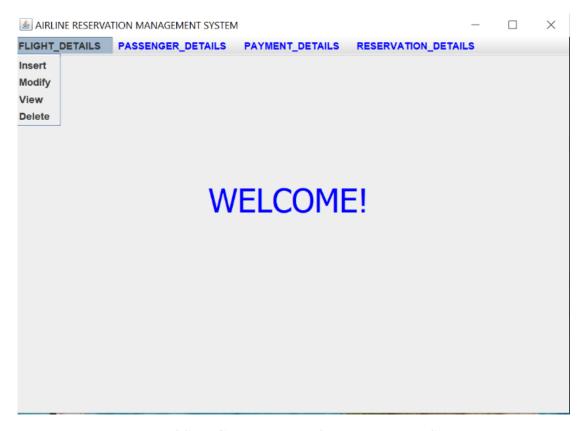


M. Abignya Reddy <1602-19-737-001>

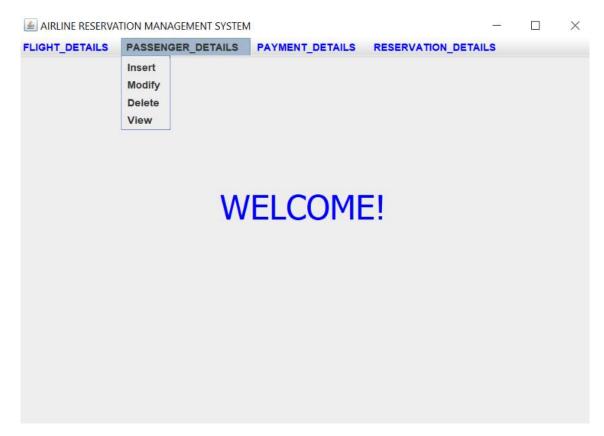
G.R. Freya <1602-19-737-032>

# **TESTING AND RESULT**

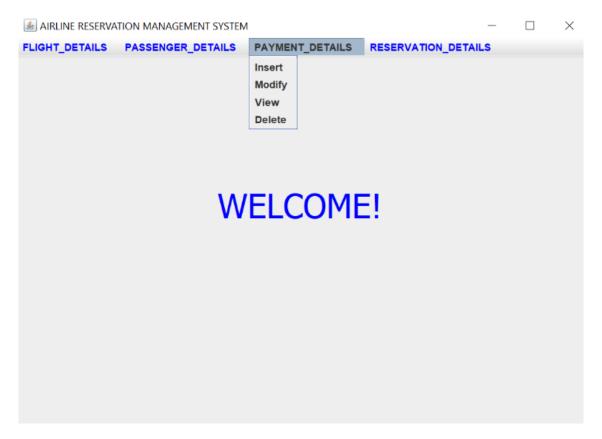
### FLIGHT DETAILS MENU ITEMS



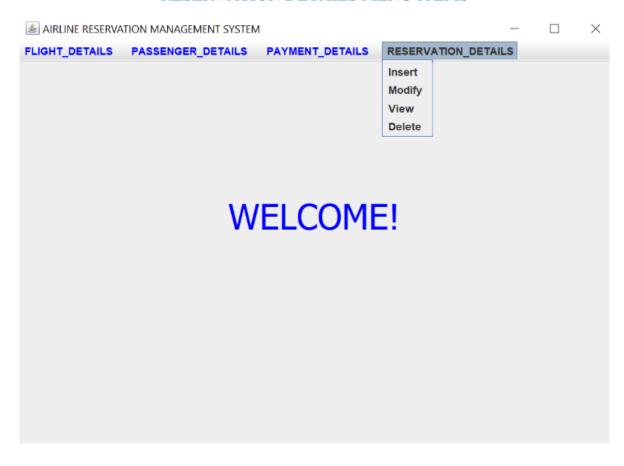
## PASSENGER DETAILS MENU ITEMS



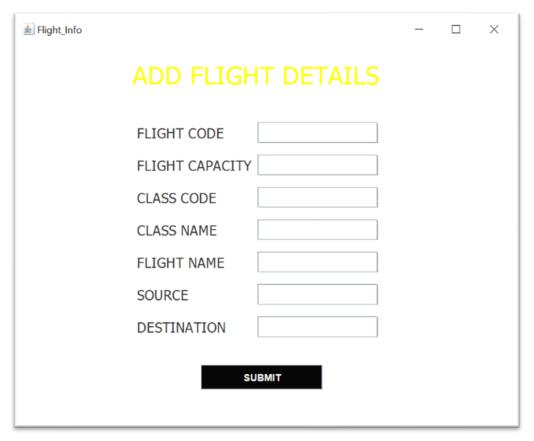
### PAYMENT DETAILS MENU ITEMS

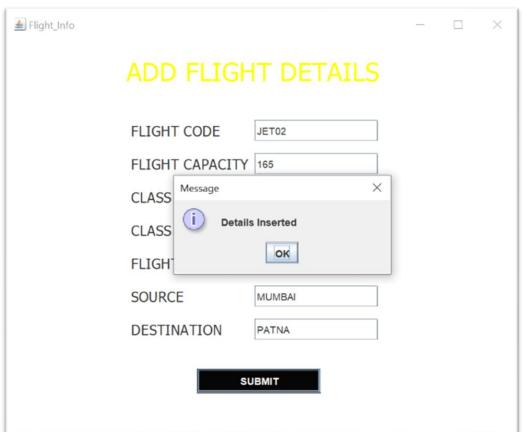


### RESERVATION DETAILS MENU ITEMS

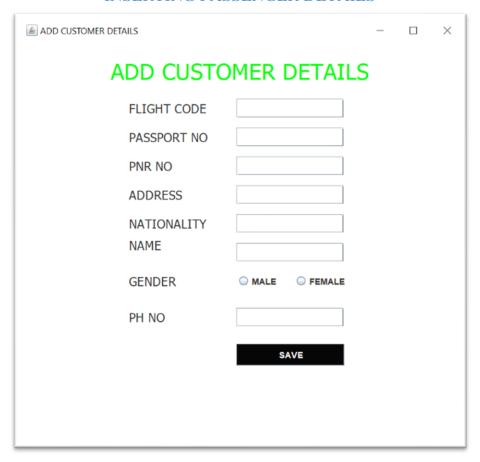


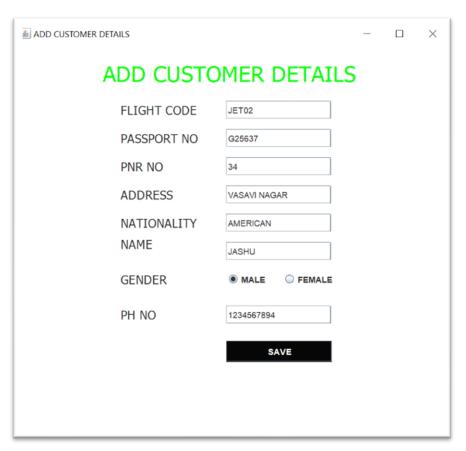
### **INSERTING FLIGHT DETAILS**

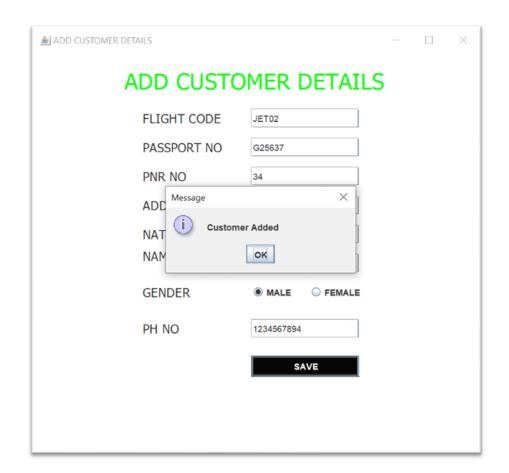




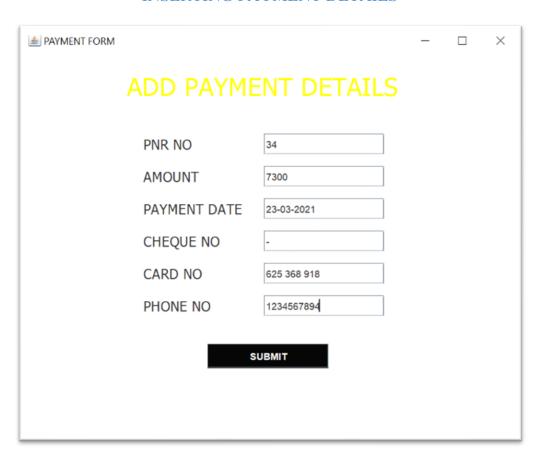
### **INSERTING PASSENGER DETAILS**

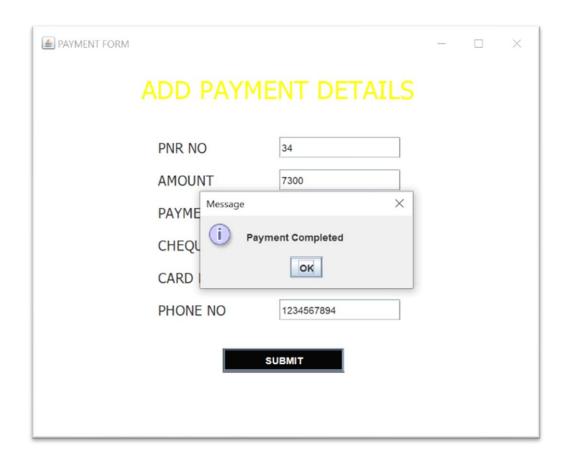




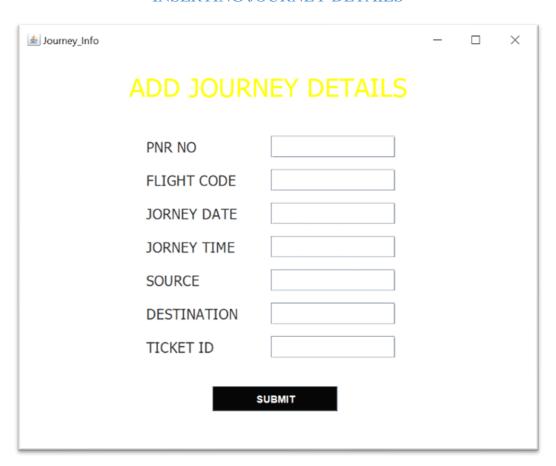


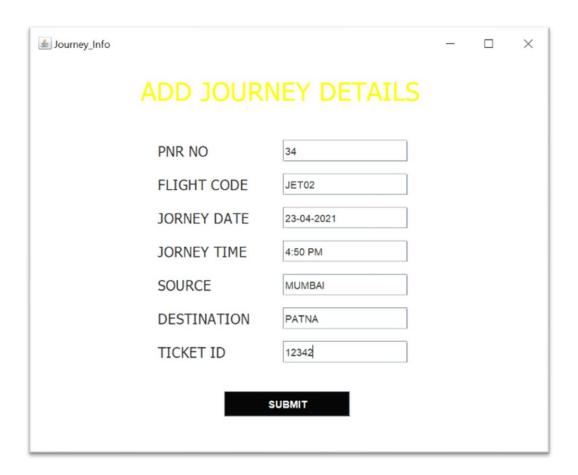
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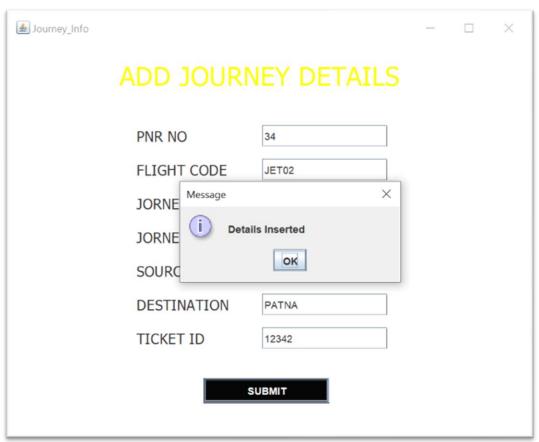




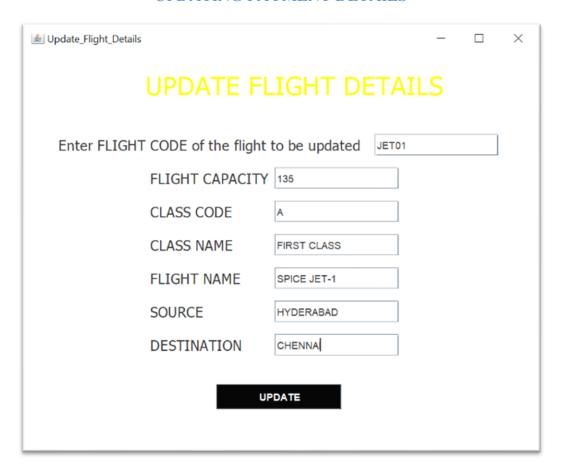
### **INSERTING JOURNEY DETAILS**

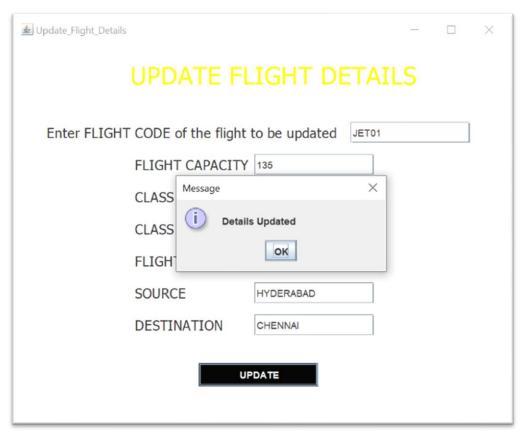




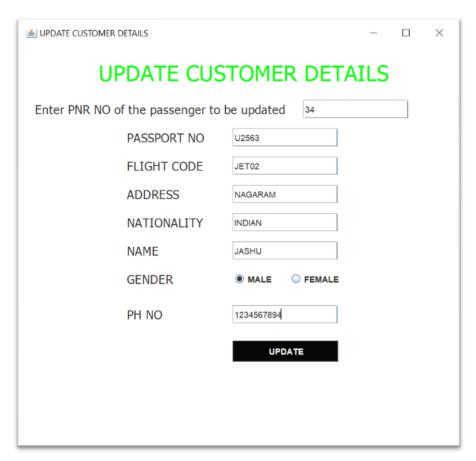


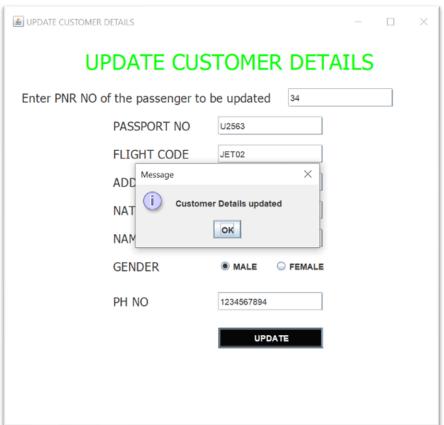
### **UPDATING PAYMENT DETAILS**



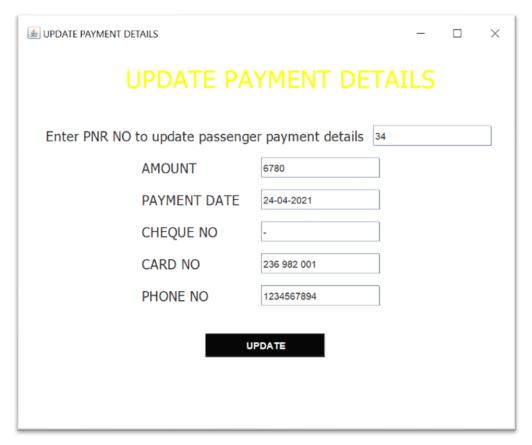


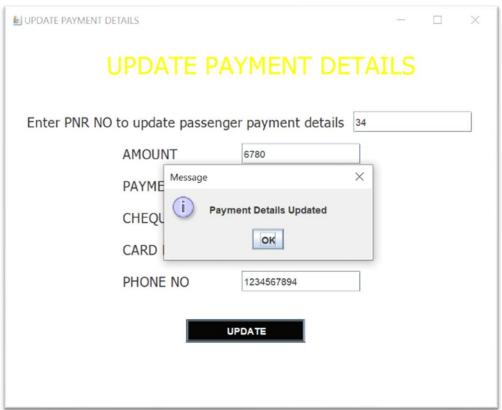
### **UPDATING PASSENGER DETAILS**



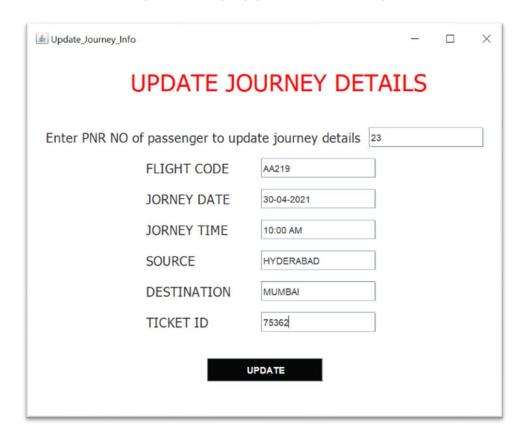


### **UPDATING PAYMENT DETAILS**

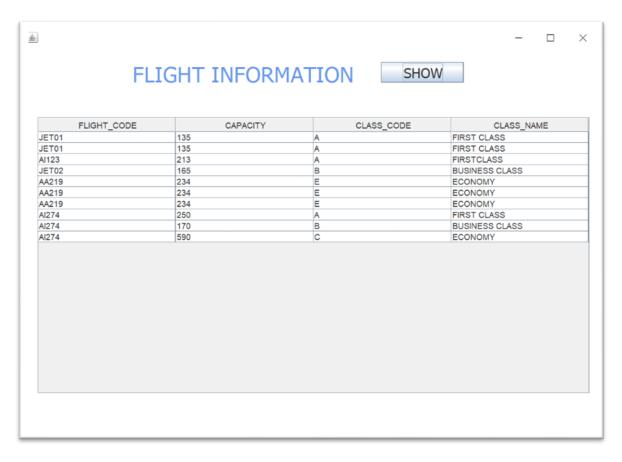




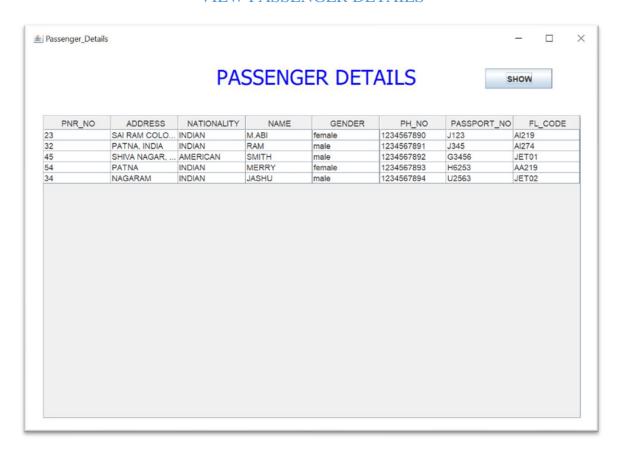
#### **UPDATING JOURNEY DETAILS**



### **VIEW FLIGHT DETAILS**



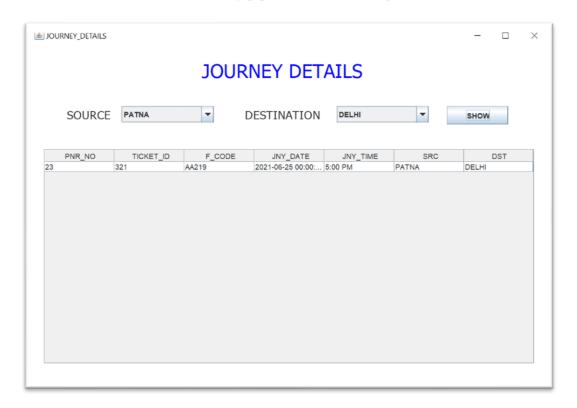
#### **VIEW PASSENGER DETAILS**



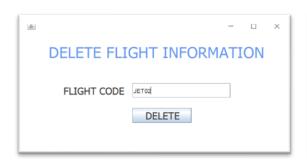
#### VIEW PAYMENT DETAILS

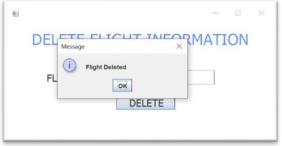


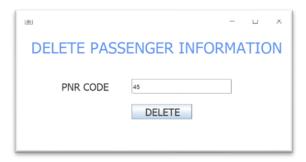
### **VIEW JOURNEY DETAILS**



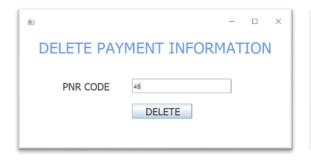
### **DELETE OPERATION**

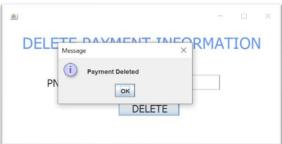
















# **DISCUSSION AND FUTURE WORK**

This project on Airline Management System is the automation of registration process of airline system. The system is able to provide much information like passenger's details, flight details and the booking details. The system allows us to add records when a passenger reserves a ticket. It also allows to delete and update the records based on passenger's requirements. This project has guided our path through various aspects of computer science where developing online application plays a major role.

In future the most probable aspects would be including more tables like the airlines expenditure, employee details etc. Lastly, there could be a room for including advanced software and other technologies that could make the project more purposeful and better for future use.

# **REFERENCES**

https://www.oracle.com/in/database/technologies/jdbc-migration.html https://www.youtube.com/watch?v=ea0HhETxOIs&t=1359s

M. Abignya Reddy <1602-19-737-001>

G.R. Freya <1602-19-737-032>