PROJECT TITLE:

AIRLINE MANAGEMENT SYSTEM

(LOGIN FORM CODE)

```java
package airlinemanagementsystem;

import javax.swing.*;

import java.awt.*;

import java.awt.event.*;

import java.sql.*;


public class Login extends JFrame implements ActionListener{

    JButton submit, reset, close;

    JTextField tfusername;

    JPasswordField tfpassword;


    public Login() {

        getContentPane().setBackground( new Color(169, 169, 169));

        setLayout(null);


        JLabel lblusername = new JLabel("Username");

        lblusername.setBounds(20, 20, 100, 20);

        lblusername.setFont(new Font("Times New Roman", Font.PLAIN, 18));

        lblusername.setForeground(Color.BLUE);
```

```java
add(lblusername);

tfusername = new JTextField();
tfusername.setBounds(130, 20, 200, 20);

add(tfusername);

JLabel lblpassword = new JLabel("Password");
lblpassword.setBounds(20, 60, 100, 20);
lblpassword.setForeground(Color.BLUE);

 lblpassword.setFont(new Font("Times New Roman", Font.PLAIN, 18));
add(lblpassword);

tfpassword = new JPasswordField();
tfpassword.setBounds(130, 60, 200, 20);
add(tfpassword);

reset = new JButton("Reset");
reset.setBounds(40, 120, 120, 20);
reset.setFont(new Font("Times New Roman", Font.PLAIN, 18));
reset.addActionListener(this);
add(reset);

submit = new JButton("Submit");
submit.setBounds(190, 120, 120, 20);
```

```java
        submit.setFont(new Font("Times New Roman", Font.PLAIN, 18));

        submit.addActionListener(this);

        add(submit);


        close = new JButton("Close");

        close.setBounds(120, 160, 120, 20);

        close.setFont(new Font("Times New Roman", Font.PLAIN, 18));

        close.addActionListener(this);

        add(close);


        setSize(400, 250);

        setLocation(600, 250);

        setVisible(true);

    }


    public void actionPerformed(ActionEvent ae) {

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

            String username = tfusername.getText();

            String password = tfpassword.getText();


            try {

                Conn c = new Conn();


                String query = "select * from login where username = '"+username+"' and password =
'"+password+"'";


                ResultSet rs = c.s.executeQuery(query);
```
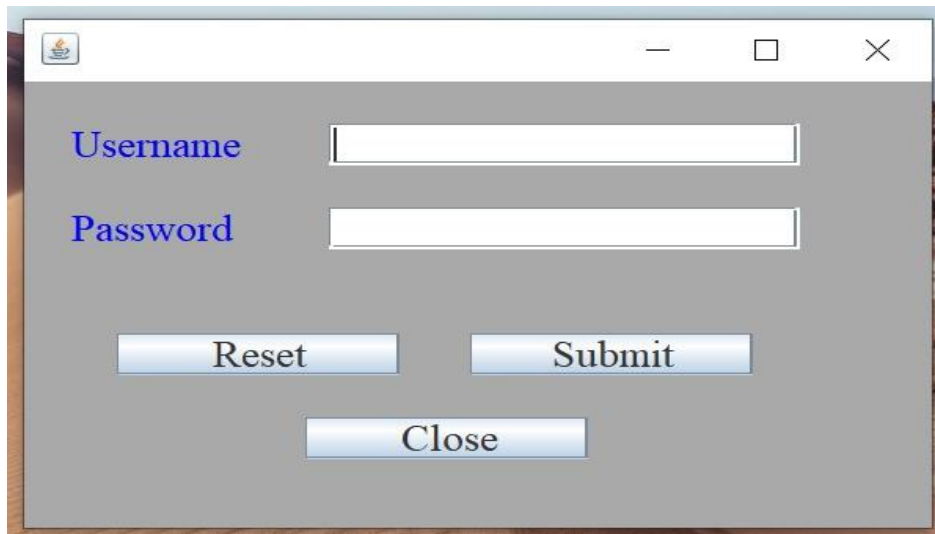
```java
            if (rs.next()) {

                new Home();

                setVisible(false);

            } else {

                JOptionPane.showMessageDialog(null, "Invalid Username or Password");

                setVisible(false);

            }

        } catch (Exception e) {

            e.printStackTrace();

        }

    } else if (ae.getSource() == close) {

        setVisible(false);

    } else if (ae.getSource() == reset) {

        tfusername.setText("");

        tfpassword.setText("");

    }

}


public static void main(String[] args) {

    new Login();

}
}
```

OUTPUT

CONNECTION CODE

```java
package airlinemanagementsystem;

import java.sql.*;

public class Conn {


    Connection c;

    Statement s;
```

```java
    public Conn() {

        try {

            Class.forName("com.mysql.cj.jdbc.Driver");

            c = DriverManager.getConnection("jdbc:mysql:///airlinemanagementsystem", "root", "12345");

            s = c.createStatement();

        } catch (Exception e) {

            e.printStackTrace();

        }

    }

}
```

HOME PAGE INTERFACE

```java
package airlinemanagementsystem;

import javax.swing.*;

import java.awt.*;

import java.awt.event.*;

public class Home extends JFrame implements ActionListener{

    public Home() {

        setLayout(null);
```

```java
    ImageIcon i1 = new
ImageIcon(ClassLoader.getSystemResource("airlinemanagementsystem/icons/flight.jpg"));

    JLabel image = new JLabel(i1);

    image.setBounds(0, 0, 1600, 800);

    add(image);


    JLabel heading = new JLabel(" WELCOMES TO AIRLINE MANAGEMENT SYSTEM");

    heading.setBounds(400, 40, 1000, 40);

    heading.setForeground(Color.white);

    heading.setFont(new Font("time new roman", Font.BOLD, 36));

    image.add(heading);


    JMenuBar menubar = new JMenuBar();

    setJMenuBar(menubar);


    JMenu details = new JMenu("Details");

    details.setSize(100,120);

    menubar.add(details);


    JMenuItem flightDetails = new JMenuItem("Flight Details");

    flightDetails.addActionListener(this);

    details.add(flightDetails);


    JMenuItem customerDetails = new JMenuItem("Add Customer Details");

    customerDetails.addActionListener(this);

    details.add(customerDetails);
```

```java
        JMenuItem bookFlight = new JMenuItem("Book Flight");

        bookFlight.addActionListener(this);

        details.add(bookFlight);


        JMenuItem journeyDetails = new JMenuItem("Journey Details");

        journeyDetails.addActionListener(this);

        details.add(journeyDetails);


        JMenuItem ticketCancellation = new JMenuItem("Cancel Ticket");

        ticketCancellation.addActionListener(this);

        details.add(ticketCancellation);


        JMenu ticket = new JMenu("Ticket");

        menubar.add(ticket);


        JMenuItem boardingPass = new JMenuItem("Boarding Pass");

        ticket.add(boardingPass);


        setSize(100,200);

        setExtendedState(JFrame.MAXIMIZED_BOTH);

        setVisible(true);

    }


    public void actionPerformed(ActionEvent ae) {

        String text = ae.getActionCommand();


        if (text.equals("Add Customer Details")) {
```
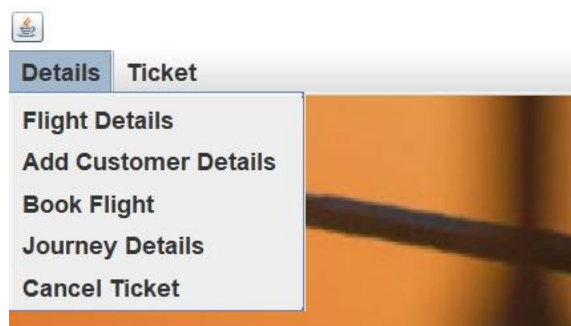
```java
            new AddCustomer();

        } else if (text.equals("Flight Details")) {

            new FlightInfo();

        } else if (text.equals("Book Flight")) {

            new BookFlight();

        } else if (text.equals("Journey Details")) {

            new JourneyDetails();

        } else if (text.equals("Cancel Ticket")) {

            new Cancel();

        }

    }
    public static void main(String[] args) {

        new Home();

    }
    }
```
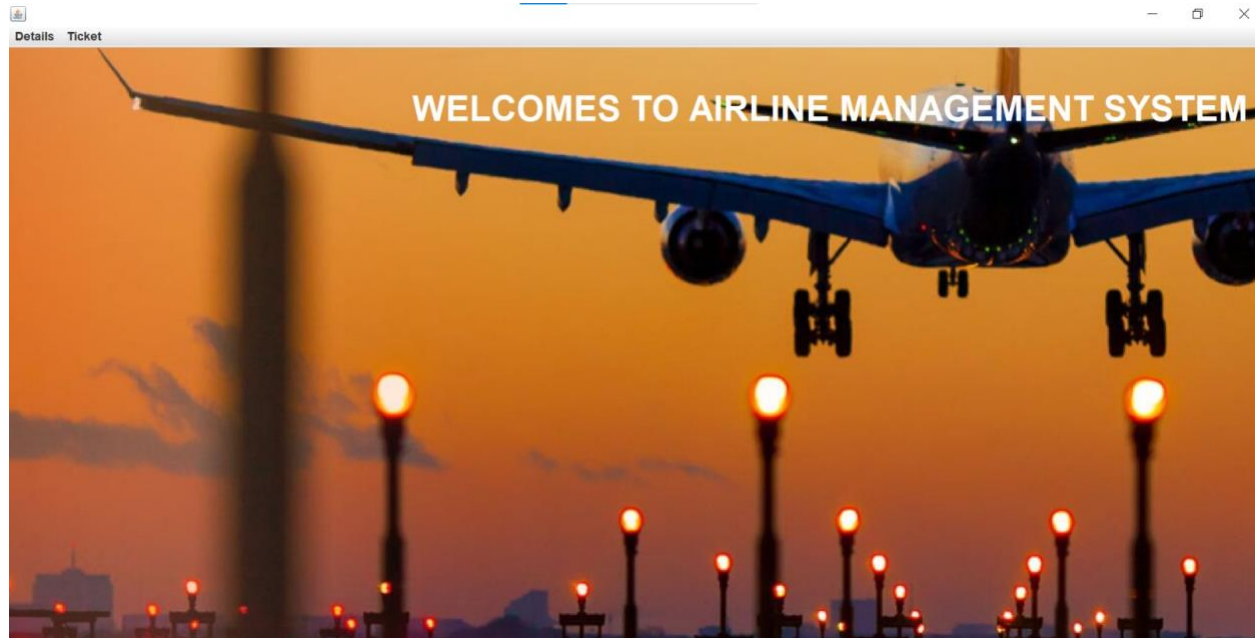
ADD CUSTOMER DETAILS

```java
package airlinemanagementsystem;

import javax.swing.*;

import java.awt.*;

import java.awt.event.*;

public class AddCustomer extends JFrame implements ActionListener{

    JTextField tfname, tfphone, tfnumber, tfnationality, tfaddress;

    JRadioButton rbmale, rbfemale;


    public AddCustomer() {

        getContentPane(). setBackground(new Color(211,211,211));

        setLayout(null);


        JLabel heading = new JLabel("ADD CUSTOMER DETAILS");

        heading.setBounds(200, 20, 500, 35);

        heading.setFont(new Font("Times New Roman", Font.PLAIN, 32));

        heading.setForeground(Color.black);

         heading.setFont(new Font("Times New Roman", Font.BOLD, 28));

        add(heading);
```

```java
JLabel lblname = new JLabel("Name :");

lblname.setBounds(60, 80, 150, 25);

lblname.setFont(new Font("Times New Roman", Font.PLAIN, 18));

lblname.setForeground(Color.black);

add(lblname);


tfname = new JTextField();

tfname.setBounds(220, 80, 150, 25);

add(tfname);


JLabel lblnationality = new JLabel("Nationality :");

lblnationality.setBounds(60, 130, 150, 25);

lblnationality.setFont(new Font("Times New Roman", Font.PLAIN, 18));

lblnationality.setForeground(Color.black);

add(lblnationality);


tfnationality = new JTextField();

tfnationality.setBounds(220, 130, 150, 25);

add(tfnationality);


JLabel lbno = new JLabel(" Number :");

lbno.setBounds(60, 180, 150, 25);

lbno.setFont(new Font("Times New Roman", Font.PLAIN, 18));

lbno. setForeground(Color.black);

add(lbno);


tfnumber = new JTextField();
```

```java
tfnumber.setBounds(220, 180, 150, 25);

add(tfnumber);


JLabel lbladdress = new JLabel("Address :");

lbladdress.setBounds(60, 230, 150, 25);

lbladdress.setFont(new Font("Times New Roman", Font.PLAIN, 18));

lbladdress.setForeground(Color.black);

add(lbladdress);


tfaddress = new JTextField();

tfaddress.setBounds(220, 230, 150, 25);

add(tfaddress);


JLabel lblgender = new JLabel("Gender :");

lblgender.setBounds(60, 280, 150, 25);

lblgender.setFont(new Font("Times New Roman", Font.PLAIN, 18));

lblgender.setForeground(Color.black);

add(lblgender);


ButtonGroup gendergroup = new ButtonGroup();


rbmale = new JRadioButton("Male");

rbmale.setBounds(220, 280, 70, 25);

rbmale.setBackground(Color.WHITE);

add(rbmale);


rbfemale = new JRadioButton("Female");
```

```java
        rbfemale.setBounds(300, 280, 70, 25);

        rbfemale.setBackground(Color.white);

        add(rbfemale);

        gendergroup.add(rbmale);

        gendergroup.add(rbfemale);

        JLabel lblphone = new JLabel("Phone :");

        lblphone.setBounds(60, 330, 150, 25);

        lblphone.setFont(new Font("Times New Roman", Font.PLAIN, 18));

        lblphone.setForeground(Color.black);

        add(lblphone);


        tfphone = new JTextField();

        tfphone.setBounds(220, 330, 150, 25);

        add(tfphone);


        JButton save = new JButton("SAVE");

        save.setBackground(Color.white);

        save.setForeground(Color.black);

        save.setBounds(220, 380, 150, 30);

        save.addActionListener(this);

        add(save);


        ImageIcon image = new
    ImageIcon(ClassLoader.getSystemResource("airlinemanagementsystem/icons/emp.png"));

        JLabel lblimage = new JLabel(image);

        lblimage.setBounds(450, 80, 280, 400);

        add(lblimage);

        setSize(900, 600);
```

```java
        setLocation(300, 150);

        setVisible(true);

    }

    public void actionPerformed(ActionEvent ae) {

        String name = tfname.getText();

        String nationality = tfnationality.getText();

        String phone = tfphone.getText();

        String address = tfaddress.getText();

        String number = tfnumber.getText();

        String gender = null;

        if (rbmale.isSelected()) {

            gender = "Male";

        } else {

            gender = "Female";

        }


        try {

            Conn conn = new Conn();


            String query = "insert into passenger values('"+name+"', '"+nationality+"', '"+phone+"',
'"+address+"', '"+number+"', '"+gender+"')";


            conn.s.executeUpdate(query);


            JOptionPane.showMessageDialog(null, "Customer Details Added Successfully");


            setVisible(false);

        } catch (Exception e) {
```

```
            e.printStackTrace();

        }

    }

    public static void main(String[] args) {

        new AddCustomer();

    }

}
```

OUTPUT

BOOK FLIGHT CODE:

package airlinemanagementsystem;

import javax.swing.*;

import java.awt.*;

import java.awt.event.*;

import java.sql.*;

import com.toedter.calendar.JDateChooser;

import java.util.*;

public class BookFlight extends JFrame implements ActionListener {

    JTextField tfnumber;

    JLabel tfname, tfnationality, tfaddress, labelgender, labelfname, labelfcode;

    JButton bookflight, fetchButton, flight;

    Choice source, destination;

    JDateChooser dcdate;

    public BookFlight() {

getContentPane().setBackground(new Color(169, 169, 169)); // Light grey background

        setLayout(null);

```java
JLabel heading = new JLabel("Book Flight");

heading.setBounds(420, 20, 500, 35);

heading.setFont(new Font("Times New Roman", Font.BOLD, 32)); // Modern font

heading.setForeground(new Color(0, 51, 102)); // Deep blue color

add(heading);


JLabel lbno = new JLabel("Number");

lbno.setBounds(60, 80, 150, 25);

lbno.setFont(new Font("Times New Roman", Font.PLAIN, 16));

lbno.setForeground(new Color(60, 60, 60));

add(lbno);


tfnumber = new JTextField();

tfnumber.setBounds(220, 80, 150, 30);

tfnumber.setFont(new Font("Times New Roman", Font.BOLD, 14));
tfnumber.setBorder(BorderFactory.createLineBorder(new Color(0, 102, 204), 2));          add(tfnumber);


fetchButton = new JButton("Fetch User");

fetchButton.setBackground(new Color(0, 102, 204)); // Button color

fetchButton.setForeground(Color.WHITE);

fetchButton.setBounds(380, 80, 120, 30);

fetchButton.setFont(new Font("Times New Roman", Font.BOLD, 14));

fetchButton.addActionListener(this);

fetchButton.setFocusPainted(false);

add(fetchButton);

JLabel lblname = new JLabel("Name");

lblname.setBounds(60, 130, 150, 25);

lblname.setFont(new Font("Times New Roman", Font.PLAIN, 16));
```

```java
lblname.setForeground(new Color(60, 60, 60));

add(lblname);


tfname = new JLabel();

tfname.setBounds(220, 130, 150, 25);

tfname.setFont(new Font("Times New Roman", Font.BOLD, 14));

add(tfname);

JLabel lblnationality = new JLabel("Nationality");

lblnationality.setBounds(60, 180, 150, 25);

lblnationality.setFont(new Font("Times New Roman", Font.PLAIN, 16));

lblnationality.setForeground(new Color(60, 60, 60));

add(lblnationality);


tfnationality = new JLabel();

tfnationality.setBounds(220, 180, 150, 25);

tfnationality.setFont(new Font("Times New Roman", Font.BOLD, 14));

add(tfnationality);

JLabel lbladdress = new JLabel("Address");

lbladdress.setBounds(60, 230, 150, 25);

lbladdress.setFont(new Font("Times New Roman", Font.PLAIN, 16));

lbladdress.setForeground(new Color(60, 60, 60));

add(lbladdress);


tfaddress = new JLabel();

tfaddress.setBounds(220, 230, 150, 25);

tfaddress.setFont(new Font("Times New Roman", Font.BOLD, 14));        add(tfaddress);

JLabel lblgender = new JLabel("Gender");
```

```java
lblgender.setBounds(60, 280, 150, 25);

lblgender.setFont(new Font("Times New Roman", Font.PLAIN, 16));

lblgender.setForeground(new Color(60, 60, 60));

add(lblgender);


labelgender = new JLabel();

labelgender.setBounds(220, 280, 150, 25);

labelgender.setFont(new Font("Times New Roman", Font.BOLD, 14));

add(labelgender);


JLabel lblsource = new JLabel("Source");

lblsource.setBounds(60, 330, 150, 25);

lblsource.setFont(new Font("Times New Roman", Font.PLAIN, 16));

lblsource.setForeground(new Color(60, 60, 60));

add(lblsource);


source = new Choice();

source.setBounds(220, 330, 150, 30);

add(source);

JLabel lbldest = new JLabel("Destination");

lbldest.setBounds(60, 380, 150, 25);

lbldest.setFont(new Font("Times New Roman", Font.PLAIN, 16));

lbldest.setForeground(new Color(60, 60, 60));

add(lbldest);


destination = new Choice();

destination.setBounds(220, 380, 150, 30);
```

```java
        add(destination);

        try {

            Conn c = new Conn();

            String query = "select * from flight";

            ResultSet rs = c.s.executeQuery(query);


            while(rs.next()) {

                source.add(rs.getString("source"));

                destination.add(rs.getString("destination"));

            }


        } catch (Exception e) {

            e.printStackTrace();

        }


        flight = new JButton("Fetch Flights");

        flight.setBackground(new Color(0, 102, 204));

        flight.setForeground(Color.WHITE);

        flight.setBounds(380, 380, 120, 30);

        flight.setFont(new Font("Times New Roman", Font.BOLD, 14));

        flight.addActionListener(this);

        flight.setFocusPainted(false);

        add(flight);

        JLabel lblfname = new JLabel("Flight Name");

        lblfname.setBounds(60, 430, 150, 25);

        lblfname.setFont(new Font("Times New Roman", Font.PLAIN, 16));
```

```java
lblfname.setForeground(new Color(60, 60, 60));

add(lblfname);


labelfname = new JLabel();

labelfname.setBounds(220, 430, 150, 25);

labelfname.setFont(new Font("Times New Roman", Font.BOLD, 14));        add(labelfname);

JLabel lblfcode = new JLabel("Flight Code");

lblfcode.setBounds(60, 480, 150, 25);

lblfcode.setFont(new Font("Times New Roman", Font.PLAIN, 16));

lblfcode.setForeground(new Color(60, 60, 60));

add(lblfcode);


labelfcode = new JLabel();

labelfcode.setBounds(220, 480, 150, 25);

labelfcode.setFont(new Font("Times New Roman", Font.BOLD, 14));

add(labelfcode);

JLabel lbldate = new JLabel("Date of Travel");

lbldate.setBounds(60, 530, 150, 25);

lbldate.setFont(new Font("Times New Roman", Font.PLAIN, 16));

lbldate.setForeground(new Color(60, 60, 60));

add(lbldate);


dcdate = new JDateChooser();

dcdate.setBounds(220, 530, 150, 30);

dcdate.setFont(new Font("Times New Roman", Font.BOLD, 14)); // Bold text for emphasis

dcdate.setBorder(BorderFactory.createLineBorder(new Color(0, 102, 204), 2)); // Blue border

add(dcdate);
```

```java
        ImageIcon i1 = new
ImageIcon(ClassLoader.getSystemResource("airlinemanagementsystem/icons/book.jpg"));

        Image i2 = i1.getImage().getScaledInstance(450, 320, Image.SCALE_DEFAULT);

        ImageIcon image = new ImageIcon(i2);

        JLabel lblimage = new JLabel(image);

        lblimage.setBounds(550, 80, 500, 410);

        add(lblimage);

        bookflight = new JButton("Book Flight");

        bookflight.setBackground(new Color(0, 102, 204));

        bookflight.setForeground(Color.WHITE);

        bookflight.setBounds(220, 580, 150, 30);

        bookflight.setFont(new Font("Times New Roman", Font.BOLD, 14));

        bookflight.addActionListener(this);

        bookflight.setFocusPainted(false);

        add(bookflight);


        setSize(1100, 700);

        setLocation(200, 50);

        setVisible(true);

    }


    public void actionPerformed(ActionEvent ae) {

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

            String number = tfnumber.getText();


            try {

                Conn conn = new Conn();
```

```java
            String query = "select * from passenger where number = '"+number+"'";

            ResultSet rs = conn.s.executeQuery(query);

            if (rs.next()) {

                tfname.setText(rs.getString("name"));

                tfnationality.setText(rs.getString("nationality"));

                tfaddress.setText(rs.getString("address"));

                labelgender.setText(rs.getString("gender"));

            } else {

                JOptionPane.showMessageDialog(null, "Please enter correct number");

            }

        } catch (Exception e) {

            e.printStackTrace();

        }

    } else if (ae.getSource() == flight) {

        String src = source.getSelectedItem();

        String dest = destination.getSelectedItem();

        try {

            Conn conn = new Conn();

            String query = "select * from flight where source = '"+src+"' and destination = '"+dest+"'";

            ResultSet rs = conn.s.executeQuery(query);

            if (rs.next()) {

                labelfname.setText(rs.getString("f_name"));
```

```java
            labelfcode.setText(rs.getString("f_code"));

        } else {

            JOptionPane.showMessageDialog(null, "No Flights Found");

        }

    } catch (Exception e) {

        e.printStackTrace();

    }

} else {

    Random random = new Random();


    String number = tfnumber.getText();

    String name = tfname.getText();

    String nationality = tfnationality.getText();

    String flightname = labelfname.getText();

    String flightcode = labelfcode.getText();

    String src = source.getSelectedItem();

    String des = destination.getSelectedItem();

    String ddate = ((JTextField) dcdate.getDateEditor().getUiComponent()).getText();


    try {

        Conn conn = new Conn();


        String query = "insert into reservation values('PNR-"+random.nextInt(1000000)+"', 'TIC-"+random.nextInt(10000)+"', '"+number+"', '"+name+"', '"+nationality+"', '"+flightname+"', '"+flightcode+"', '"+src+"', '"+des+"', '"+ddate+"')";


        conn.s.executeUpdate(query);
```

```java
                JOptionPane.showMessageDialog(null, "Ticket Booked Successfully");


                setVisible(false);

            } catch (Exception e) {

                e.printStackTrace();

            }

        }

    }


    public static void main(String[] args) {

        new BookFlight();

    }

}
```

OUTPUT:
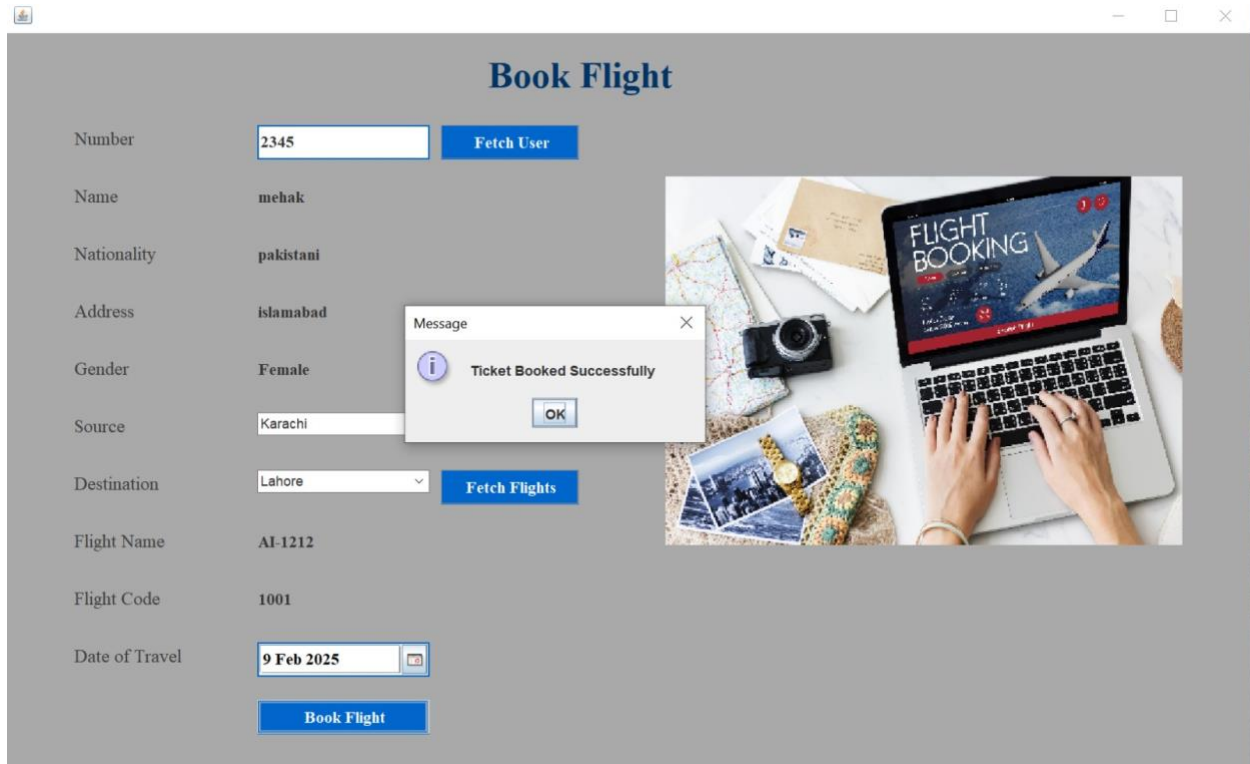
FLIGHT INFO

package airlinemanagementsystem;

import javax.swing.*;

import java.awt.*;

import java.sql.*;

import net.proteanit.sql.DbUtils;

public class FlightInfo extends JFrame {

```java
public FlightInfo() {

    getContentPane().setBackground(new Color(245, 245, 245));

    setLayout(null);

    JLabel heading = new JLabel("Flight Information");

    heading.setFont(new Font("Times New Roman", Font.BOLD, 24));

    heading.setForeground(new Color(0, 51, 102)); // Dark Blue color

    heading.setBounds(300, 20, 300, 40);

    add(heading);



    JTable table = new JTable();

    table.setFont(new Font("Times New Roman", Font.PLAIN, 14));

    table.setRowHeight(30);

    table.setSelectionBackground(new Color(0, 51, 102));

    table.setSelectionForeground(Color.WHITE);

    table.setBackground(Color.WHITE);

    table.setForeground(Color.BLACK);


    try {

        Conn conn = new Conn();

        ResultSet rs = conn.s.executeQuery("SELECT * FROM flight");

        table.setModel(DbUtils.resultSetToTableModel(rs));

    } catch (Exception e) {

        e.printStackTrace();

    }
```

```java
        JScrollPane jsp = new JScrollPane(table);

        jsp.setBounds(50, 80, 700, 350);

        add(jsp);


        setSize(800, 500);

        setVisible(true);

        setTitle("Flight Information");

        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);    }


    public static void main(String[] args) {

        new FlightInfo();

    }

}
```

OUTPUT:

Flight Information

f_code	f_name	source	destination
1001	AI-1212	Karachi	Lahore
1002	AI-1453	Islamabad	Peshawar
1003	AI-1112	Lahore	Rawalpindi
1004	AI-3222	Karachi	Multan
1005	AI-1212	Islamabad	Faisalabad
1002	AI-1453	Faisalabad	Multan
1002	AI-1453	Islamabad	Rawalpindi

JOURNEY DETAILS:

```java
import javax.swing.*;

import java.awt.*;

import java.sql.*;

import java.awt.event.*;

import net.proteanit.sql.DbUtils;


public class JourneyDetails extends JFrame implements ActionListener {

    JTable table;

    JTextField pnr;

    JButton show;
```

```java
public JourneyDetails() {

    getContentPane().setBackground(new Color(245, 245, 245));        setLayout(null);

    JLabel heading = new JLabel("JOURNEY DETAILS");

    heading.setFont(new Font("time new roman", Font.BOLD, 24));

    heading.setForeground(new Color(0, 51, 102));        heading.setBounds(300, 10, 300, 40);

    add(heading);


    JLabel lblpnr = new JLabel("PNR Details:");

    lblpnr.setFont(new Font("time new roman", Font.BOLD, 16));

    lblpnr.setBounds(50, 70, 100, 25);

    lblpnr.setForeground(new Color(0, 51, 102));

    add(lblpnr);

    pnr = new JTextField();

    pnr.setBounds(160, 70, 150, 30);

    pnr.setFont(new Font("Time new roman", Font.BOLD, 14));

    pnr.setBackground(Color.WHITE);

    pnr.setForeground(Color.BLACK);

    add(pnr);

    show = new JButton("Show Details");

    show.setBackground(new Color(0, 51, 102)); // Dark Blue

    show.setForeground(Color.WHITE);

    show.setBounds(330, 70, 150, 30);

    show.setFont(new Font("Segoe UI", Font.BOLD, 14));

    show.setBorderPainted(false);

    show.setFocusPainted(false);

    show.setCursor(Cursor.getPredefinedCursor(Cursor.HAND_CURSOR));

    show.addActionListener(this);
```

```java
        add(show);

        table = new JTable();

        table.setFont(new Font("Tahoma", Font.PLAIN, 14));

        table.setRowHeight(30);

        table.setSelectionBackground(new Color(0, 51, 102)); // Dark Blue when selected

        table.setBackground(Color.WHITE);

        table.setForeground(Color.BLACK);


        JScrollPane jsp = new JScrollPane(table);

        jsp.setBounds(50, 120, 700, 400);

        add(jsp);

        setSize(800, 600);

        setLocation(400, 150);

        setVisible(true);

        setTitle("Journey Details");

        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

    }

    public void actionPerformed(ActionEvent ae) {

        try {

            Conn conn = new Conn();

            ResultSet rs = conn.s.executeQuery("select * from reservation where PNR = '"+pnr.getText()+"'");


            if (!rs.isBeforeFirst()) {

                JOptionPane.showMessageDialog(null, "No Information Found");

                return;

            }
```

```
            table.setModel(DbUtils.resultSetToTableModel(rs));

        } catch (Exception e) {

            e.printStackTrace();

        }

    }


    public static void main(String[] args) {

        new JourneyDetails();

    }
}
```

OUTPUT:

CANCEL FLIGHT

```java
package airlinemanagementsystem;


import javax.swing.*;

import java.awt.*;

import java.awt.event.*;

import java.sql.*;

import java.util.*;


public class Cancel extends JFrame implements ActionListener{


    JTextField tfpnr;

    JLabel tfname, cancellationno, lblfcode, lbldateoftravel;

    JButton fetchButton, flight;


    public Cancel() {

        getContentPane().setBackground(new Color(240, 240, 240));

        setLayout(null);


        Random random = new Random();


        JLabel heading = new JLabel("CANCELLATION");

        heading.setBounds(195, 30, 270, 45);

        heading.setFont(new Font("Times New Roman", Font.BOLD, 32));
```

```java
heading.setForeground(new Color(0, 102, 204));

add(heading);


ImageIcon i1 = new
ImageIcon(ClassLoader.getSystemResource("airlinemanagementsystem/icons/cancel.jpg"));

Image i2 = i1.getImage().getScaledInstance(250, 250, Image.SCALE_DEFAULT);

ImageIcon i3 = new ImageIcon(i2);

JLabel image = new JLabel(i3);

image.setBounds(470, 120, 250, 250);

add(image);


    JLabel lblaadhar = new JLabel("PNR Number");

lblaadhar.setBounds(60, 80, 150, 25);

lblaadhar.setFont(new Font("Times New Roman", Font.PLAIN, 16));

lblaadhar.setForeground(new Color(60, 60, 60)); // Darker text color

add(lblaadhar);


tfpnr = new JTextField();

tfpnr.setBounds(220, 80, 150, 30);

tfpnr.setFont(new Font("Times New Roman", Font.PLAIN, 14));

tfpnr.setBorder(BorderFactory.createLineBorder(new Color(0, 102, 204), 1));

add(tfpnr);


fetchButton = new JButton("Show Details");

fetchButton.setBackground(new Color(0, 102, 204)); // Matching the title color

fetchButton.setForeground(Color.WHITE);

fetchButton.setBounds(380, 80, 120, 30);

fetchButton.setFont(new Font("Times New Roman", Font.BOLD, 14));
```

```java
fetchButton.addActionListener(this);

fetchButton.setFocusPainted(false);

add(fetchButton);


JLabel lblname = new JLabel("Name");

lblname.setBounds(60, 130, 150, 25);

lblname.setFont(new Font("Times New Roman", Font.PLAIN, 16));

lblname.setForeground(new Color(60, 60, 60));

add(lblname);


tfname = new JLabel();

tfname.setBounds(220, 130, 250, 25);

tfname.setFont(new Font("Times New Roman", Font.PLAIN, 14));

tfname.setForeground(new Color(0, 102, 204));

add(tfname);


JLabel lblnationality = new JLabel("Cancellation No");

lblnationality.setBounds(60, 180, 150, 25);

lblnationality.setFont(new Font("Times New Roman", Font.PLAIN, 16));

lblnationality.setForeground(new Color(60, 60, 60));

add(lblnationality);


cancellationno = new JLabel("" + random.nextInt(1000000));

cancellationno.setBounds(220, 180, 150, 25);

cancellationno.setFont(new Font("Times New Roman", Font.PLAIN, 14));

cancellationno.setForeground(new Color(0, 102, 204));

add(cancellationno);
```

```java
JLabel lbladdress = new JLabel("Flight Code");

lbladdress.setBounds(60, 230, 150, 25);

lbladdress.setFont(new Font("Times New Roman", Font.PLAIN, 16));

lbladdress.setForeground(new Color(60, 60, 60));

add(lbladdress);


lblfcode = new JLabel();

lblfcode.setBounds(220, 230, 150, 25);

lblfcode.setFont(new Font("Times New Roman", Font.PLAIN, 14));

lblfcode.setForeground(new Color(0, 102, 204));

add(lblfcode);


JLabel lblgender = new JLabel("Date");

lblgender.setBounds(60, 280, 150, 25);

lblgender.setFont(new Font("Times New Roman", Font.PLAIN, 16));

lblgender.setForeground(new Color(60, 60, 60));

add(lblgender);


lbldateoftravel = new JLabel();

lbldateoftravel.setBounds(220, 280, 150, 25);

lbldateoftravel.setFont(new Font("Times New Roman", Font.PLAIN, 14));

lbldateoftravel.setForeground(new Color(0, 102, 204));

add(lbldateoftravel);


flight = new JButton("Cancel");

flight.setBackground(new Color(255, 0, 0));        flight.setForeground(Color.WHITE);
```

```java
        flight.setBounds(220, 330, 120, 30);

        flight.setFont(new Font("Times New Roman", Font.BOLD, 14));

        flight.addActionListener(this);

        flight.setFocusPainted(false);

        add(flight);

        setSize(800, 450);

        setLocation(350, 150);

        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);        setVisible(true);

    }


    public void actionPerformed(ActionEvent ae) {
        if (ae.getSource() == fetchButton) {
            String pnr = tfpnr.getText();


            try {
                Conn conn = new Conn();


                String query = "select * from reservation where PNR = '"+pnr+"'";


                ResultSet rs = conn.s.executeQuery(query);


                if (rs.next()) {
                    tfname.setText(rs.getString("name"));
                    lblfcode.setText(rs.getString("flightcode"));
                    lbldateoftravel.setText(rs.getString("ddate"));
                } else {
                    JOptionPane.showMessageDialog(null, "Please enter correct PNR", "Error",
JOptionPane.ERROR_MESSAGE);
```

```java
                }
            } catch (Exception e) {
                e.printStackTrace();
            }
        } else if (ae.getSource() == flight) {
            String name = tfname.getText();
            String pnr = tfpnr.getText();
            String cancelno = cancellationno.getText();
            String fcode = lblfcode.getText();
            String date = lbldateoftravel.getText();


            try {
                Conn conn = new Conn();


                String query = "insert into cancel values('"+pnr+"', '"+name+"', '"+cancelno+"', '"+fcode+"', '"+date+"')";


                conn.s.executeUpdate(query);
                conn.s.executeUpdate("delete from reservation where PNR = '"+pnr+"'");
                JOptionPane.showMessageDialog(null, "Ticket Cancelled Successfully", "Success", JOptionPane.INFORMATION_MESSAGE);
                setVisible(false);


            } catch (Exception e) {
                e.printStackTrace();
            }
        }
    }
```

```java
    public static void main(String[] args) {

        new Cancel();

    }

}
```

OUTPUT

BORDING PASS

package airlinemanagementsystem;

```java
import javax.swing.*;

import java.awt.*;

import java.awt.event.*;

import java.sql.*;

import java.util.*;


public class BoardingPass extends JFrame implements ActionListener{

    JTextField tfpnr;
    JLabel tfname, tfnationality, lblsrc, lbldest, labelfname, labelfcode, labeldate;
    JButton fetchButton;

    public BoardingPass() {
        getContentPane().setBackground(new Color(211, 211, 211));
        setLayout(null);

        JLabel heading = new JLabel("AIRLINE MANAGEMENT");
        heading.setBounds(380, 10, 450, 35);
        heading.setFont(new Font("Times New Roman", Font.PLAIN, 32));
        add(heading);

        JLabel subheading = new JLabel("Boarding Pass");
        subheading.setBounds(360, 50, 300, 30);
        subheading.setFont(new Font("Times New Roman", Font.PLAIN, 24));
        subheading.setForeground(Color.BLUE);
        add(subheading);
```

```java
JLabel lblaadhar = new JLabel("PNR DETAILS");

lblaadhar.setBounds(60, 100, 150, 25);

lblaadhar.setFont(new Font("Times New Roman", Font.PLAIN, 16));

add(lblaadhar);


tfpnr = new JTextField();

tfpnr.setBounds(220, 100, 150, 25);

add(tfpnr);


fetchButton = new JButton("Enter");

fetchButton.setBackground(Color.BLACK);

fetchButton.setForeground(Color.WHITE);

fetchButton.setBounds(380, 100, 120, 25);

fetchButton.addActionListener(this);

add(fetchButton);


JLabel lblname = new JLabel("NAME");

lblname.setBounds(60, 140, 150, 25);

lblname.setFont(new Font("Times New Roman", Font.PLAIN, 16));

add(lblname);


tfname = new JLabel();

tfname.setBounds(220, 140, 150, 25);

add(tfname);


JLabel lblnationality = new JLabel("NATIONALITY");
```

```java
lblnationality.setBounds(60, 180, 150, 25);

lblnationality.setFont(new Font("Times New Roman", Font.PLAIN, 16));

add(lblnationality);


tfnationality = new JLabel();

tfnationality.setBounds(220, 180, 150, 25);

add(tfnationality);


JLabel lbladdress = new JLabel("SRC");

lbladdress.setBounds(60, 220, 150, 25);

lbladdress.setFont(new Font("Times New Roman", Font.PLAIN, 16));

add(lbladdress);


lblsrc = new JLabel();

lblsrc.setBounds(220, 220, 150, 25);

add(lblsrc);


JLabel lblgender = new JLabel("DEST");

lblgender.setBounds(380, 220, 150, 25);

lblgender.setFont(new Font("Times New Roman", Font.PLAIN, 16));

add(lblgender);


lbldest = new JLabel();

lbldest.setBounds(540, 220, 150, 25);

add(lbldest);


JLabel lblfname = new JLabel("Flight Name");
```

```java
        lblfname.setBounds(60, 260, 150, 25);

        lblfname.setFont(new Font("Times New Roman", Font.PLAIN, 16));

        add(lblfname);


        labelfname = new JLabel();

        labelfname.setBounds(220, 260, 150, 25);

        add(labelfname);


        JLabel lblfcode = new JLabel("Flight Code");

        lblfcode.setBounds(380, 260, 150, 25);

        lblfcode.setFont(new Font("Times New Roman", Font.PLAIN, 16));

        add(lblfcode);


        labelfcode = new JLabel();

        labelfcode.setBounds(540, 260, 150, 25);

        add(labelfcode);


        JLabel lbldate = new JLabel("Date");

        lbldate.setBounds(60, 300, 150, 25);

        lbldate.setFont(new Font("Times New Roman", Font.PLAIN, 16));

        add(lbldate);


        labeldate = new JLabel();

        labeldate.setBounds(220, 300, 150, 25);

        add(labeldate);


        ImageIcon i1 = new
    ImageIcon(ClassLoader.getSystemResource("airlinemanagementsystem/icons/pass.jpg"));
```

```java
        Image i2 = i1.getImage().getScaledInstance(300, 230, Image.SCALE_DEFAULT);

        ImageIcon image = new ImageIcon(i2);

        JLabel lblimage = new JLabel(image);

        lblimage.setBounds(600, 0, 300, 300);

        add(lblimage);


        setSize(1000, 450);

        setLocation(300, 150);

        setVisible(true);

    }


    public void actionPerformed(ActionEvent ae) {

        String pnr = tfpnr.getText();

        try {

            Conn conn = new Conn();

            String query = "select * from reservation where PNR = '"+pnr+"'";


            ResultSet rs = conn.s.executeQuery(query);


            if (rs.next()) {

                tfname.setText(rs.getString("name"));

                tfnationality.setText(rs.getString("nationality"));

                lblsrc.setText(rs.getString("src"));

                lbldest.setText(rs.getString("des"));

                labelfname.setText(rs.getString("flightname"));

                labelfcode.setText(rs.getString("flightcode"));

                labeldate.setText(rs.getString("ddate"));
```

```
        } else {

            JOptionPane.showMessageDialog(null, "Please enter correct PNR");

        }

    } catch (Exception e) {

        e.printStackTrace();

    }

  }


  public static void main(String[] args) {

    new BoardingPass();

  }

}
```

OUTPUT:

DATABASE IN MYSQL:


```
mysql> USE AIRLINEMANAGEMENTSYSTEM;
Database changed
mysql> describe table login;
+----+-------------+-------+------------+------+---------------+------+---------+------+------+----------+-------+
| id | select_type | table | partitions | type | possible_keys | key  | key_len | ref  | rows | filtered | Extra |
+----+-------------+-------+------------+------+---------------+------+---------+------+------+----------+-------+
|  1 | SIMPLE      | login | NULL       | ALL  | NULL          | NULL | NULL    | NULL |    1 |   100.00 | NULL  |
+----+-------------+-------+------------+------+---------------+------+---------+------+------+----------+-------+
1 row in set, 1 warning (0.05 sec)

mysql> select * from login;
+----------+----------+
| username | password |
+----------+----------+
| admin    | admin    |
+----------+----------+
1 row in set (0.00 sec)

mysql> describe table passenger;
```

```
mysql> describe table passenger;
+----+-------------+-----------+------------+------+---------------+------+---------+------+------+----------+-------+
| id | select_type | table     | partitions | type | possible_keys | key  | key_len | ref  | rows | filtered | Extra |
+----+-------------+-----------+------------+------+---------------+------+---------+------+------+----------+-------+
|  1 | SIMPLE      | passenger | NULL       | ALL  | NULL          | NULL | NULL    | NULL |    7 |   100.00 | NULL  |
+----+-------------+-----------+------------+------+---------------+------+---------+------+------+----------+-------+
1 row in set, 1 warning (0.00 sec)

mysql> select * from passenger;
+--------+-------------+----------+-----------+----------+--------+
| name   | nationality | phone    | address   | number   | gender |
+--------+-------------+----------+-----------+----------+--------+
|        |             |          |           |          | Female |
| Ali    | pakistani   | 65789765 | islamabad | 09675436 | Male   |
| ahmed  | pakistani   | 894773   | karachi   | 23433    | Male   |
| sara   | pakistani   | 2343     | lahore    | 123      | Female |
| alice  | pakistani   | 345355   | karachi   | 124      | Female |
| mehak  | pakistani   | 233432   | islamabad | 2345     | Female |
| ayesha | pakistani   | 37889    | lahore    | 12345    | Female |
+--------+-------------+----------+-----------+----------+--------+
7 rows in set (0.00 sec)
```

```
ERROR 1146 (42S02): Table 'airlinemanagementsystem.dreservation' doesn't exist
mysql> describe table reservation;
+----+-------------+-------------+------------+------+---------------+------+---------+------+------+----------+-------+
| id | select_type | table       | partitions | type | possible_keys | key  | key_len | ref  | rows | filtered | Extra |
+----+-------------+-------------+------------+------+---------------+------+---------+------+------+----------+-------+
|  1 | SIMPLE      | reservation | NULL       | ALL  | NULL          | NULL | NULL    | NULL |    2 |   100.00 | NULL  |
+----+-------------+-------------+------------+------+---------------+------+---------+------+------+----------+-------+
1 row in set, 1 warning (0.05 sec)

mysql> select * from reservation;
+------------+----------+--------+-------+-------------+------------+-----------+---------+-------------+------------+
| PNR        | TICKET   | number | name  | nationality | flightname | flightcode| src     | destination | ddate      |
+------------+----------+--------+-------+-------------+------------+-----------+---------+-------------+------------+
| PNR-283572 | TIC-1955 | 2345   | mehak | pakistani   | AI-1212    | 1001      | Karachi | Lahore      | 7 Feb 2025 |
| PNR-441713 | TIC-5630 | 2345   | mehak | pakistani   | AI-1212    | 1001      | Karachi | Lahore      | 9 Feb 2025 |
+------------+----------+--------+-------+-------------+------------+-----------+---------+-------------+------------+
2 rows in set (0.00 sec)
```

```
mysql> describe table flight;
+----+-------------+--------+------------+------+---------------+------+---------+------+------+----------+-------+
| id | select_type | table  | partitions | type | possible_keys | key  | key_len | ref  | rows | filtered | Extra |
+----+-------------+--------+------------+------+---------------+------+---------+------+------+----------+-------+
|  1 | SIMPLE      | flight | NULL       | ALL  | NULL          | NULL | NULL    | NULL |    7 |   100.00 | NULL  |
+----+-------------+--------+------------+------+---------------+------+---------+------+------+----------+-------+
1 row in set, 1 warning (0.00 sec)

mysql> select * from flight;
+--------+---------+------------+-------------+
| f_code | f_name  | source     | destination |
+--------+---------+------------+-------------+
| 1001   | AI-1212 | Karachi    | Lahore      |
| 1002   | AI-1453 | Islamabad  | Peshawar    |
| 1003   | AI-1112 | Lahore     | Rawalpindi  |
| 1004   | AI-3222 | Karachi    | Multan      |
| 1005   | AI-1212 | Islamabad  | Faisalabad  |
| 1002   | AI-1453 | Faisalabad | Multan      |
| 1002   | AI-1453 | Islamabad  | Rawalpindi  |
+--------+---------+------------+-------------+
7 rows in set (0.00 sec)
```