PROJECT CODE

IMPLEMENTATION (CODE)

```java
package flightreservationsystem;

import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

public class AddCustomer extends JFrame implements ActionListener{

    JTextField tfname, tfphone, tfaadhar, tfnationality, tfaddress;
    JRadioButton rbmale, rbfemale;

    public AddCustomer() {
        getContentPane().setBackground(Color.WHITE);
        setLayout(null);

        JLabel heading = new JLabel("ADD CUSTOMER DETAILS");
        heading.setBounds(220, 20, 500, 35);
        heading.setFont(new Font("Tahoma", Font.PLAIN, 32));
        heading.setForeground(Color.BLUE);
        add(heading);

        JLabel lblname = new JLabel("Name");
        lblname.setBounds(60, 80, 150, 25);
        lblname.setFont(new Font("Tahoma", Font.PLAIN, 16));
        add(lblname);
```

```java
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("Tahoma", Font.PLAIN, 16));
add(lblnationality);

tfnationality = new JTextField();
tfnationality.setBounds(220, 130, 150, 25);
add(tfnationality);

JLabel lblaadhar = new JLabel("Aadhar Number");
lblaadhar.setBounds(60, 180, 150, 25);
lblaadhar.setFont(new Font("Tahoma", Font.PLAIN, 16));
add(lblaadhar);

tfaadhar = new JTextField();
tfaadhar.setBounds(220, 180, 150, 25);
add(tfaadhar);

JLabel lbladdress = new JLabel("Address");
lbladdress.setBounds(60, 230, 150, 25);
lbladdress.setFont(new Font("Tahoma", Font.PLAIN, 16));
add(lbladdress);

tfaddress = new JTextField();
tfaddress.setBounds(220, 230, 150, 25);
add(tfaddress);
```

```java
JLabel lblgender = new JLabel("Gender");
lblgender.setBounds(60, 280, 150, 25);
lblgender.setFont(new Font("Tahoma", Font.PLAIN, 16));
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");
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("Tahoma", Font.PLAIN, 16));
add(lblphone);

tfphone = new JTextField();
tfphone.setBounds(220, 330, 150, 25);
add(tfphone);

JButton save = new JButton("SAVE");
save.setBackground(Color.BLACK);
```

```java
        save.setForeground(Color.WHITE);

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

        save.addActionListener(this);

        add(save);


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

        JLabel lblimage = new JLabel(image);

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

        add(lblimage);


        setSize(900, 600);

        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 aadhar = tfaadhar.getText();

        String gender = null;

        if (rbmale.isSelected()) {

            gender = "Male";

        } else {

            gender = "Female";

        }


        try {
```

```java
        Conn conn = new Conn();


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

}
}
```
2.boarding pass

```java
package flightreservationsystem;


import javax.swing.*;

import java.awt.*;

import java.awt.event.*;

import java.sql.*;


public class BoardingPass extends JFrame implements ActionListener {


    JTextField tfpnr;
```

```java
JLabel tfname, tfnationality, lblsrc, lbldest, labelfname, labelfcode, labeldate;
JButton fetchButton;

public BoardingPass() {
    getContentPane().setBackground(Color.WHITE);
    setLayout(null);

    JLabel heading = new JLabel("AIR INDIA");
    heading.setBounds(380, 10, 450, 35);
    heading.setFont(new Font("Tahoma", Font.PLAIN, 32));
    add(heading);

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

    JLabel lblaadhar = new JLabel("PNR DETAILS");
    lblaadhar.setBounds(60, 100, 150, 25);
    lblaadhar.setFont(new Font("Tahoma", 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);
```

```java
fetchButton.addActionListener(this);

add(fetchButton);



    e.printStackTrace();

  }

} else {

  Random random = new Random();


  String aadhar = tfaadhar.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)+"', '"+aadhar+"',
'"+name+"', '"+nationality+"', '"+flightname+"', '"+flightcode+"', '"+src+"', '"+des+"',
'"+ddate+"')";


    conn.s.executeUpdate(query);


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


    setVisible(false);
```

```java
        } catch (Exception e) {

            e.printStackTrace();

        }

    }

}

    public static void main(String[] args) {

        new BookFlight();

    }

}
```
5.login

package flightreservationsystem;

import javax.swing.*;

import java.awt.*;

import java.awt.event.*;

import java.sql.*;

```java
public class Login extends JFrame implements ActionListener{

    JButton submit, reset, close;

    JTextField tfusername;

    JPasswordField tfpassword;

    public Login() {

        getContentPane().setBackground(Color.WHITE);

        setLayout(null);

        JLabel lblusername = new JLabel("Username");

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

        add(lblusername);
```

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


      boardingPass.addActionListener(this);  // Add ActionListener to Boarding Pass
      ticket.add(boardingPass);


      // Set Frame Properties
      setExtendedState(JFrame.MAXIMIZED_BOTH);
      setVisible(true);
   }


   @Override
   public void actionPerformed(ActionEvent ae) {
      String text = ae.getActionCommand();


      if (text.equals("Add Customer Details")) {
         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();
      } else if (text.equals("Boarding Pass")) {
         new BoardingPass(); // Create and display the Boarding Pass window
      }
   }
```

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

        new Home();

    }

}
```

6.Flight details:

```java
package flightreservationsystem;


import javax.swing.*;

import java.awt.*;

import java.sql.*;

import net.proteanit.sql.DbUtils;


public class FlightInfo extends JFrame{


    public FlightInfo() {


        getContentPane().setBackground(Color.WHITE);

        setLayout(null);


        JTable table = new JTable();


        try {

            Conn conn = new Conn();


            ResultSet rs = conn.s.executeQuery("select * from flight");

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

        } catch(Exception e) {

            e.printStackTrace();

        }


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

```java
        jsp.setBounds(0, 0, 800, 500);

        add(jsp);


        setSize(800, 500);

        setLocation(400, 200);

        setVisible(true);

    }


    public static void main(String[] args) {

        new FlightInfo();

    }

}
```

7.Connection:

```java
package flightreservationsystem;


import java.sql.*;


public class Conn {


    Connection c;

    Statement s;


    public Conn() {

        try {

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

            c = DriverManager.getConnection("jdbc:mysql:///flightreservationsystem", "root", "0409");

            s = c.createStatement();

        } catch (Exception e) {

            e.printStackTrace();

        }
```

```
    }
}
```