#### 1.LOGIN PAGE

```
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(Color.WHITE);
    setLayout(null);
    JLabel lblusername = new JLabel("Username");
    Iblusername.setBounds(20, 20, 100, 20);
    add(lblusername);
    tfusername = new JTextField();
    tfusername.setBounds(130, 20, 200, 20);
    add(tfusername);
    JLabel lblpassword = new JLabel("Password");
    lblpassword.setBounds(20, 60, 100, 20);
    add(lblpassword);
```

```
tfpassword = new JPasswordField();
  tfpassword.setBounds(130, 60, 200, 20);
  add(tfpassword);
  reset = new JButton("Reset");
  reset.setBounds(40, 120, 120, 20);
  reset.addActionListener(this);
  add(reset);
  submit = new JButton("Submit");
  submit.setBounds(190, 120, 120, 20);
  submit.addActionListener(this);
  add(submit);
  close = new JButton("Close");
  close.setBounds(120, 160, 120, 20);
  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);
         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();
  }
}
```

## 2.HOME PAGE

```
package airlinemanagementsystem;
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
public class Home extends JFrame implements ActionListener{
  public Home() {
    setLayout(null);
    Imagelcon i1 = new
ImageIcon(ClassLoader.getSystemResource("airlinemanagementsystem/icons/file.jpg"));
    JLabel image = new JLabel(i1);
    image.setBounds(0, 0, 1600, 800);
    add(image);
    JLabel heading = new JLabel(" EMIRATES WELCOMES YOU ");
    heading.setBounds(500, 40, 1500, 40);
    heading.setForeground(Color.BLACK);
    heading.setFont(new Font("Tahoma", Font.PLAIN, 36));
    image.add(heading);
    JMenuBar menubar = new JMenuBar();
    setJMenuBar(menubar);
    JMenu details = new JMenu("Details");
    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);
  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);
  setExtendedState(JFrame.MAXIMIZED_BOTH);
  setVisible(true);
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();
    }
  }
  public static void main(String[] args) {
    new Home();
  }
}
```

# **3.FLIGHT INFO PAGE**

```
package airlinemanagementsystem;
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);
  jsp.setBounds(0, 0, 800, 500);
  add(jsp);
  setSize(800, 500);
  setLocation(400, 200);
  setVisible(true);
}
public static void main(String[] args) {
  new FlightInfo();
}
```

#### **4.ADD CUSTOMER DETAILS PAGE**

```
package airlinemanagementsystem;
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.RED);
    add(heading);
    JLabel lblname = new JLabel("Name");
    lblname.setBounds(60, 80, 150, 25);
    lblname.setFont(new Font("Tahoma", Font.PLAIN, 16));
    add(lblname);
    tfname = new JTextField();
    tfname.setBounds(220, 80, 150, 25);
```

```
add(tfname);
JLabel lblnationality = new JLabel("Nationality");
lblnationality.setBounds(60, 130, 150, 25);
lbInationality.setFont(new Font("Tahoma", Font.PLAIN, 16));
add(lblnationality);
tfnationality = new JTextField();
tfnationality.setBounds(220, 130, 150, 25);
add(tfnationality);
JLabel Iblaadhar = 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);
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);
save.setForeground(Color.WHITE);
save.setBounds(220, 380, 150, 30);
```

```
save.addActionListener(this);
    add(save);
    ImageIcon image = new
ImageIcon(ClassLoader.getSystemResource("airlinemanagementsystem/icons/customer.jpeg"));
    JLabel lblimage = new JLabel(image);
    Iblimage.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 {
      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();
}
```

### **5. BOOK FLIGHT PAGE**

```
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 tfaadhar;
```

```
JLabel tfname, tfnationality, tfaddress, labelgender, labelfname, labelfcode;
JButton bookflight, fetchButton, flight;
Choice source, destination;
JDateChooser dcdate;
public BookFlight() {
  getContentPane().setBackground(Color.WHITE);
  setLayout(null);
  JLabel heading = new JLabel("Book Flight");
  heading.setBounds(420, 20, 500, 35);
  heading.setFont(new Font("Tahoma", Font.PLAIN, 32));
  heading.setForeground(Color.RED);
  add(heading);
  JLabel lblaadhar = new JLabel("Aadhar");
  Iblaadhar.setBounds(60, 80, 150, 25);
  lblaadhar.setFont(new Font("Tahoma", Font.PLAIN, 16));
  add(lblaadhar);
  tfaadhar = new JTextField();
  tfaadhar.setBounds(220, 80, 150, 25);
  add(tfaadhar);
  fetchButton = new JButton("Fetch User");
  fetchButton.setBackground(Color.BLACK);
  fetchButton.setForeground(Color.WHITE);
  fetchButton.setBounds(380, 80, 120, 25);
  fetchButton.addActionListener(this);
  add(fetchButton);
```

```
JLabel lblname = new JLabel("Name");
lblname.setBounds(60, 130, 150, 25);
lblname.setFont(new Font("Tahoma", Font.PLAIN, 16));
add(lblname);
tfname = new JLabel();
tfname.setBounds(220, 130, 150, 25);
add(tfname);
JLabel lbInationality = new JLabel("Nationality");
lblnationality.setBounds(60, 180, 150, 25);
lbInationality.setFont(new Font("Tahoma", Font.PLAIN, 16));
add(lblnationality);
tfnationality = new JLabel();
tfnationality.setBounds(220, 180, 150, 25);
add(tfnationality);
JLabel lbladdress = new JLabel("Address");
lbladdress.setBounds(60, 230, 150, 25);
lbladdress.setFont(new Font("Tahoma", Font.PLAIN, 16));
add(lbladdress);
tfaddress = new JLabel();
tfaddress.setBounds(220, 230, 150, 25);
add(tfaddress);
JLabel lblgender = new JLabel("Gender");
lblgender.setBounds(60, 280, 150, 25);
lblgender.setFont(new Font("Tahoma", Font.PLAIN, 16));
add(lblgender);
```

```
labelgender = new JLabel("Gender");
labelgender.setBounds(220, 280, 150, 25);
add(labelgender);
JLabel lblsource = new JLabel("Source");
lblsource.setBounds(60, 330, 150, 25);
lblsource.setFont(new Font("Tahoma", Font.PLAIN, 16));
add(lblsource);
source = new Choice();
source.setBounds(220, 330, 150, 25);
add(source);
JLabel lbldest = new JLabel("Destination");
lbldest.setBounds(60, 380, 150, 25);
lbldest.setFont(new Font("Tahoma", Font.PLAIN, 16));
add(lbldest);
destination = new Choice();
destination.setBounds(220, 380, 150, 25);
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(Color.BLACK);
flight.setForeground(Color.WHITE);
flight.setBounds(380, 380, 120, 25);
flight.addActionListener(this);
add(flight);
JLabel lblfname = new JLabel("Flight Name");
lblfname.setBounds(60, 430, 150, 25);
lblfname.setFont(new Font("Tahoma", Font.PLAIN, 16));
add(lblfname);
labelfname = new JLabel();
labelfname.setBounds(220, 430, 150, 25);
add(labelfname);
JLabel lblfcode = new JLabel("Flight Code");
lblfcode.setBounds(60, 480, 150, 25);
lblfcode.setFont(new Font("Tahoma", Font.PLAIN, 16));
add(lblfcode);
labelfcode = new JLabel();
labelfcode.setBounds(220, 480, 150, 25);
add(labelfcode);
```

```
JLabel Ibldate = new JLabel("Date of Travel");
    lbldate.setBounds(60, 530, 150, 25);
    lbldate.setFont(new Font("Tahoma", Font.PLAIN, 16));
    add(lbldate);
    dcdate = new JDateChooser();
    dcdate.setBounds(220, 530, 150, 25);
    add(dcdate);
    Imagelcon i1 = new
ImageIcon(ClassLoader.getSystemResource("airlinemanagementsystem/icons/checklist.jpeg"));
    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(Color.BLACK);
    bookflight.setForeground(Color.WHITE);
    bookflight.setBounds(220, 580, 150, 25);
    bookflight.addActionListener(this);
    add(bookflight);
    setSize(1100, 700);
    setLocation(200, 50);
    setVisible(true);
  }
  public void actionPerformed(ActionEvent ae) {
    if (ae.getSource() == fetchButton) {
```

```
String aadhar = tfaadhar.getText();
  try {
    Conn conn = new Conn();
    String query = "select * from passenger where aadhar = ""+aadhar+""";
    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 aadhar");
    }
  } 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"));
           labelfcode.setText(rs.getString("f_code"));
        } else {
           JOptionPane.showMessageDialog(null, "No Flights Found");
        }
      } catch (Exception e) {
        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);
```

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

public static void main(String[] args) {
    new BookFlight();
}
```

## **6.JOURNEY DETAILS PAGE**

```
package airlinemanagementsystem;

import javax.swing.*;

import java.awt.*;

import java.avt.event.*;

import net.proteanit.sql.DbUtils;

public class JourneyDetails extends JFrame implements ActionListener{
    JTable table;
    JTextField pnr;
    JButton show;

public JourneyDetails() {

    getContentPane().setBackground(Color.WHITE);
    setLayout(null);
```

```
JLabel lblpnr = new JLabel("PNR Details");
  lblpnr.setFont(new Font("Tahoma", Font.PLAIN, 16));
  lblpnr.setBounds(50, 50, 100, 25);
  add(lblpnr);
  pnr = new JTextField();
  pnr.setBounds(160, 50, 120, 25);
  add(pnr);
  show = new JButton("Show Details");
  show.setBackground(Color.BLACK);
  show.setForeground(Color.WHITE);
  show.setBounds(290, 50, 120, 25);
  show.addActionListener(this);
  add(show);
  table = new JTable();
  JScrollPane jsp = new JScrollPane(table);
  jsp.setBounds(0, 100, 800, 150);
  jsp.setBackground(Color.WHITE);
  add(jsp);
  setSize(800, 600);
  setLocation(400, 150);
  setVisible(true);
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();
  }
}
```

# **7.TICKET CANCELLATION PAGE**

```
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(Color.WHITE);
    setLayout(null);
    Random random = new Random();
    JLabel heading = new JLabel("CANCELLATION");
    heading.setBounds(180, 20, 250, 35);
    heading.setFont(new Font("Tahoma", Font.PLAIN, 32));
    add(heading);
    Imagelcon i1 = new
ImageIcon(ClassLoader.getSystemResource("airlinemanagementsystem/icons/cancel.jpeg"));
    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("Tahoma", Font.PLAIN, 16));
    add(lblaadhar);
    tfpnr = new JTextField();
    tfpnr.setBounds(220, 80, 150, 25);
```

```
add(tfpnr);
fetchButton = new JButton("Show Details");
fetchButton.setBackground(Color.BLACK);
fetchButton.setForeground(Color.WHITE);
fetchButton.setBounds(380, 80, 120, 25);
fetchButton.addActionListener(this);
add(fetchButton);
JLabel lblname = new JLabel("Name");
lblname.setBounds(60, 130, 150, 25);
lblname.setFont(new Font("Tahoma", Font.PLAIN, 16));
add(lblname);
tfname = new JLabel();
tfname.setBounds(220, 130, 150, 25);
add(tfname);
JLabel lblnationality = new JLabel("Cancellation No");
lblnationality.setBounds(60, 180, 150, 25);
lbInationality.setFont(new Font("Tahoma", Font.PLAIN, 16));
add(lblnationality);
cancellationno = new JLabel("" + random.nextInt(1000000));
cancellationno.setBounds(220, 180, 150, 25);
add(cancellationno);
JLabel Ibladdress = new JLabel("Flight Code");
lbladdress.setBounds(60, 230, 150, 25);
lbladdress.setFont(new Font("Tahoma", Font.PLAIN, 16));
add(lbladdress);
```

```
lblfcode = new JLabel();
  lblfcode.setBounds(220, 230, 150, 25);
  add(lblfcode);
  JLabel lblgender = new JLabel("Date");
  lblgender.setBounds(60, 280, 150, 25);
  lblgender.setFont(new Font("Tahoma", Font.PLAIN, 16));
  add(lblgender);
  lbldateoftravel = new JLabel();
  IbIdateoftravel.setBounds(220, 280, 150, 25);
  add(lbldateoftravel);
  flight = new JButton("Cancel");
  flight.setBackground(Color.BLACK);
  flight.setForeground(Color.WHITE);
  flight.setBounds(220, 330, 120, 25);
  flight.addActionListener(this);
  add(flight);
  setSize(800, 450);
  setLocation(350, 150);
  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");
        }
      } catch (Exception e) {
        e.printStackTrace();
      }
    } else if (ae.getSource() == flight) {
      String name = tfname.getText();
      String pnr = tfpnr.getText();
      String cancelno = cancellationno.getText();
      String fcode = Iblfcode.getText();
      String date = IbIdateoftravel.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");
    setVisible(false);

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

public static void main(String[] args) {
    new Cancel();
}
```