# DATABASE (BACK END):

1. Table name: ftbl (contains flight details)

Field	Туре	Null	Key	Default	Extra
a id	varchar(5)	NO	PRI	NULL	
a_name	varchar(25)	YES		NULL	
dep	varchar(25)	YES		NULL	
arr	varchar(25)	YES		NULL	
dep_time	date	YES		NULL	
F_FARE	varchar(6)	YES		NULL	
B FARE	varchar(6)	YES		NULL	
E_FARE	varchar(6)	YES		NULL	
dep date	varchar(20)	YES		NULL	

#### CREATE TABLE ftbl (

)

```
a_id varchar(5) NOT NULL,
a_name varchar(25) DEFAULT NULL,
dep varchar(25) DEFAULT NULL,
arr varchar(25) DEFAULT NULL,
dep_time date DEFAULT NULL,
F_FARE varchar(6) DEFAULT NULL,
B_FARE varchar(6) DEFAULT NULL,
E_FARE varchar(6) DEFAULT NULL,
dep_date varchar(20) DEFAULT NULL,
PRIMARY KEY (a_id)
```

2. Table name: ptb(contains passenger details):

Field	Туре	Null	Key	Default	Extra
p_id p_name pass_no age sex a_id date class meal lcard	varchar(25) varchar(25) varchar(25) varchar(2) varchar(6) varchar(25) varchar(26) varchar(26) varchar(26) varchar(27)	NO YES	PRI	NULL NULL NULL NULL NULL NULL NULL NULL	
cost	varchar(6)	YES		NULL	

```
CREATE TABLE ptb (

p_id varchar(25) NOT NULL,

p_name varchar(25) DEFAULT NULL,

pass_no varchar(25) DEFAULT NULL,
```

```
age varchar(2) DEFAULT NULL,
sex varchar(6) DEFAULT NULL,
a_id varchar(25) DEFAULT NULL,
date varchar(20) DEFAULT NULL,
class varchar(25) DEFAULT NULL,
meal varchar(25) DEFAULT NULL,
lcard varchar(7) DEFAULT NULL,
cost varchar(6) DEFAULT NULL,
PRIMARY KEY (p_id),
KEY ptb_ibfk_1 (a_id),
CONSTRAINT ptb_ibfk_1 FOREIGN KEY (a_id) REFERENCES ftbl (a_id) ON DELETE
CASCADE ON UPDATE CASCADE
```

)

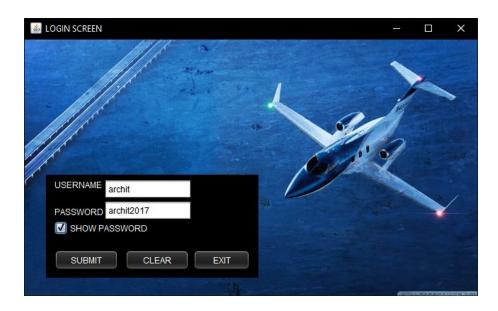
# FIRST FRAME



## //LABEL MOUSE CLICKED

new loginscreen().setVisible(true);
this.dispose();

# **LOGIN SCREEN:**



USER NAME	user
PASSWORD	pass
SHOW PASSWORD	show
SUBMIT	submit
CLEAR	clear
EXIT	exit

#### //ACTION FOR SHOWING PASSWORD

```
String p=new String(pass.getPassword());

if(show.isSelected())

pass.setEchoChar((char)0);

//ACTION FOR CLEARING

user.setText("");

pass.setText("");

show.setSelected(false);

//SUBMIT ACTION PERFORMED

String u=user.getText();

String p=new String(pass.getPassword());

if((u.equalsIgnoreCase("NAINA") && p.equals("naina2017")) || (u.equalsIgnoreCase("ARCHIT")

&& p.equals("archit2017")) || (u.equalsIgnoreCase("ABHIJITH") &&

p.equals("abhijith2017"))){

new mainframe().setVisible(true);

this.dispose();
```

```
}
else
    JOptionPane.showMessageDialog(rootPane,"INCORRECT USERNAME OR PASSWORD");
```

# MAIN FRAME:



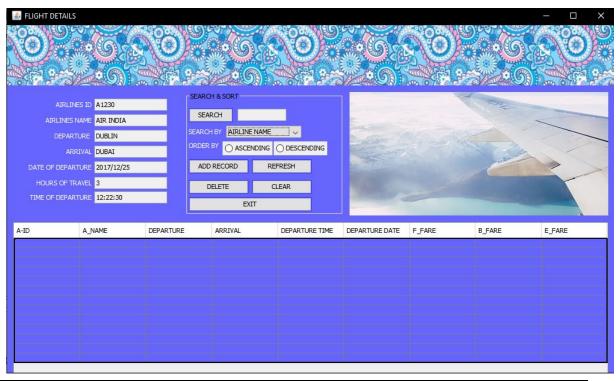
FLIGHT DETAILS	flight
PASSENGER DETAILS	passenger
REPORT	report
SIGN OUT	signout
EXIT	exit

```
//FLIGHT ACTION PERFORMED
```

System.exit(0);

```
flightframe n1 = new flightframe();
DesktopPane.add(n1);
n1.setVisible(true);
//PASSENGER ACTION PERFORMED
passengerdetails n2 = new passengerdetails();
DesktopPane.add(n2);
n2.setVisible(true);
//REPORT ACTION PERFORMED
REPORT n3 = new REPORT();
DesktopPane.add(n3);
n3.setVisible(true);
//SIGNOUT ACTION PERFORMED
new loginscreen().setVisible(true);
this.dispose();
//EXIT ACTION PERFORMED
JOptionPane.showMessageDialog(this,"THANK YOU");
```

## FLIGHT FRAME:



### //IMPORT STATEMENTS

import java.sql.\*;

```
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
//MYSQL CONNECTION
Connection con;
void opencon(){
    try{
        Class.forName("java.sql.Driver");
        con=DriverManager.getConnection("jdbc:mysql://localhost/project2017","root","pass");
    }
```

```
catch(Exception e){
      JOptionPane.showMessageDialog(rootPane,e.getMessage());
    }
 }
//DISPLAYING THE TABLE
void display(){
 try{
    String q= "Select * from ftbl";
    Statement stmt= con.createStatement();
    ResultSet rs=stmt.executeQuery(q);
    DefaultTableModel dtm=(DefaultTableModel)tbl.getModel();
    while(dtm.getRowCount()>0){
     dtm.removeRow(0);
    }
    String aid, an, dep, arr, dtime, ff, bf, ef, dd;
    while(rs.next()){
      aid=(rs.getString(1));
      an=(rs.getString(2));
      dep=(rs.getString(3));
     arr=(rs.getString(4));
      dtime=(rs.getString(5));
      ff=(rs.getString(6));
      bf=(rs.getString(7));
      ef=(rs.getString(8));
      dd=(rs.getString(9));
      Object nr[]={aid,an,dep,arr,dd,dtime,ff,bf,ef};
      dtm.addRow(nr);
    }
 }
  catch(Exception e){
    JOptionPane.showMessageDialog(rootPane,e.getMessage());
 }
 }
//FORM INTERNAL FRAME OPENED
opencon();
display();
//ADD ACTION PERFORMED
try{
    String aid,an,dep,arr,dtime,f,bf,ef,dd;
      aid =AID.getText();
```

```
an=ANAME.getText();
      dep=DEPA.getText();
      arr=ARRI.getText();
      dtime=TDEPA.getText();
      dd=DDEP.getText();
      f=JOptionPane.showInputDialog("enter the number of first class fare");
      bf=JOptionPane.showInputDialog("enter the number of business class fare ");
      ef=JOptionPane.showInputDialog("enter the number of economy class fare ");
     String q = "Insert into ftbl
    Values(""+aid+"',""+an+"',""+dep+"',""+arr+"',""+dd+"',"+f+","+bf+","+ef+",""+dtime+"')";
     Statement stmt=con.createStatement();
     stmt.executeUpdate(q);
     display();
 }
  catch(Exception e){
    JOptionPane.showMessageDialog(rootPane,e.getMessage());
 }
//REFRESH ACTION PERFORMED
display();
//DELETE ACTION PERFORMED
try{
    String a= JOptionPane.showInputDialog("ENTER THE A_ID TO BE DELETED");
    String q="delete from ftbl where a_id=""+a+"";
    Statement stmt=con.createStatement();
    stmt.executeUpdate(q);
    display();
 }
  catch(Exception e){
    JOptionPane.showMessageDialog(rootPane,e.getMessage());
 }
//CLEAR ACTION PERFORMED
  AID.setText("");
  ANAME.setText("");
 ARRI.setText("");
  DEPA.setText("");
 TDEPA.setText("");
  ASC.setSelected(true);
  DDEP.setText("");
 HOT.setText("");
  se.setText("");
```

```
//EXIT ACTION PERFORMED
this.dispose();
//SEARCH ACTION PERFORMED
try{
    String a,b;
    b=se.getText();
    int i;
    String or;
   if(DESC.isSelected())
    or="desc";
   else
    or="asc";
   i=SORT.getSelectedIndex();
    switch (i) {
      case 0:
        a="A_NAME";
        break;
      case 1:
        a="dep";
        break;
      default:
        a="arr";
        break;
    }
      String g="Select * from ftbl where "+a+" LIKE '%"+b+"%' ORDER BY A_ID "+or;
      Statement stmt= con.createStatement();
    ResultSet rs=stmt.executeQuery(g);
    DefaultTableModel dtm=(DefaultTableModel)tbl.getModel();
    while(dtm.getRowCount()>0)
      dtm.removeRow(0);
      String aid,an,dep,arr,dtime,ff,bf,ef,dd;
    while(rs.next()){
      aid=(rs.getString(1));
      an=(rs.getString(2));
      dep=(rs.getString(3));
      arr=(rs.getString(4));
      dtime=(rs.getString(5));
      ff=(rs.getString(6));
      bf=(rs.getString(7));
      ef=(rs.getString(8));
      dd=(rs.getString(9));
```

```
Object nr[]={aid,an,dep,arr,dd,dtime,ff,bf,ef};
    dtm.addRow(nr);
}

catch(Exception e){
    JOptionPane.showMessageDialog(rootPane,e.getMessage());
}
```

# PASSENGER FRAME:



#### //IMPORT STATEMENTS

```
import java.sql.*;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
```

#### //CONNECTING MYSQL

```
Connection con;
try{
    Class.forName("java.sql.Driver");
    con=DriverManager.getConnection("jdbc:mysql://localhost/project2017","root","pass");
} catch (Exception e) {
    JOptionPane.showMessageDialog(rootPane,e.getMessage());
}
```

#### //DISPLAYING TABLE

```
try{
    String q= "Select * from ptb";
    Statement stmt= con.createStatement();
    ResultSet rs=stmt.executeQuery(q);
    DefaultTableModel dtm=(DefaultTableModel)tbl.getModel();
    while(dtm.getRowCount()>0){
```

```
dtm.removeRow(0);
    }
    String aid,an,dep,arr,dtime,ff,bf,ef,dd,co;
    while(rs.next()){
      aid=(rs.getString(1));
      an=(rs.getString(2));
      dep=(rs.getString(3));
     arr=(rs.getString(4));
      dtime=(rs.getString(5));
      ff=(rs.getString(6));
      bf=(rs.getString(8));
      ef=(rs.getString(9));
      dd=(rs.getString(10));
      co=rs.getString(11);
      Object nr[]={aid,an,dep,arr,dd,dtime,ff,bf,ef,co};
      dtm.addRow(nr);
    }
  }
  catch(Exception e){
    JOptionPane.showMessageDialog(rootPane,e.getMessage());
 }
//FORM WINDOW OPENED
try{
    opencon();
    String q= "Select distinct dep from ftbl";
    Statement stmt= con.createStatement();
    ResultSet rs=stmt.executeQuery(q);
    pDep.removeAllItems();
    while(rs.next()){
      pDep.addItem(rs.getString(1));
    System.out.println(rs.getString(1));
    display();
    }}catch(Exception e){
    JOptionPane.showMessageDialog(rootPane,e.getMessage());
 }
//ADD ACTION PERFORMED
try{
    String pd,pna,pas,ag,ge,ai,da,cla,me,lc,co;
```

```
double far;
     pd =PID.getText();
     pna=pname.getText();
     pas=PASSNO.getText();
     ag= AGE.getText();
     if(MALE.isSelected())
       ge="MALE";
     else
       ge="FEMAL";
     ai=fid.getText();
     cla=(String) CL.getSelectedItem();
     me= (String) MEAL.getSelectedItem();
     if(LCARD.isSelected()){
       Ic="YES";
     far=Double.parseDouble(FARE.getText())*0.90;
     }
     else
       lc="NO";
     co=COST.getText();
     String q = "Insert into ptb values(""+pd
    +"',""+pna+"',""+pas+"',""+ag+"',""+ge+"',""+ai+"',null,""+cla+"',""+me+"',""+lc+"',""+co+"')";
     Statement stmt=con.createStatement();
     stmt.executeUpdate(q);
     display();
  catch(SQLException e){
    JOptionPane.showMessageDialog(rootPane,e.getMessage());
 }
//DELETE ACTION PERFORMED
try{
    String a= JOptionPane.showInputDialog("ENTER THE P_ID TO BE DELETED");
    String q="delete from ptb where p_id=""+a+""";
    Statement stmt=con.createStatement();
    stmt.executeUpdate(q);
    display();
  catch(SQLException e){
    JOptionPane.showMessageDialog(rootPane,e.getMessage());
  }
```

```
//pDep Action performed
try{
    String d=(String)pDep.getSelectedItem();
    String q= "Select distinct arr from ftbl where dep=""+d+"";
    Statement stmt= con.createStatement();
    ResultSet rs=stmt.executeQuery(q);
    pArv.removeAllItems();
    while(rs.next())
      pArv.addItem(rs.getString(1));
  }catch(SQLException e){
    JOptionPane.showMessageDialog(rootPane,e.getMessage());
 }
//pArv ACTION PERFORMED
try{
    String d=(String)pDep.getSelectedItem();
    String a=(String)pArv.getSelectedItem();
    String q= "Select distinct a_name from ftbl where dep=""+d+"" and arr=""+a+"";
    Statement stmt= con.createStatement();
    ResultSet rs=stmt.executeQuery(q);
    aname.removeAllItems();
    while(rs.next())
      aname.addItem(rs.getString(1));
  }catch(SQLException e){
    JOptionPane.showMessageDialog(rootPane,e.getMessage());
 }
//aname ACTION PERFORMED
try{
    String d=(String)pDep.getSelectedItem();
    String a=(String)pArv.getSelectedItem();
    String n=(String) aname.getSelectedItem();
    String c=(String) CL.getSelectedItem();
    String q="";
    if(c.equals("Business"))
      q= "Select distinct a_id, b_fare from ftbl where dep=""+d+"' and arr=""+a+"' and
    a_name=""+n+""";
    else if(c.equals("First"))
      q= "Select distinct a_id, f_fare from ftbl where dep=""+d+"" and arr=""+a+"" and
    a name=""+n+""";
    else if(c.equals("Economy"))
```

```
q= "Select distinct a_id, e_fare from ftbl where dep=""+d+" and arr=""+a+" and
    a _name=""+n+""";
    Statement stmt= con.createStatement();
    ResultSet rs=stmt.executeQuery(q);
    if(rs.next()){
      System.out.println(rs.getString(1));
      fid.setText(rs.getString(1));
      FARE.setText(rs.getString(2));
      COST.setText(rs.getString(2));
    }
  }catch(SQLException e){
    JOptionPane.showMessageDialog(rootPane,e.getMessage());
  }
//CL ACTION PERFORMED
try{
    String i=fid.getText();
    String c=(String) CL.getSelectedItem();
    String q="";
    if(c.equals("Business"))
      q= "Select distinct b_fare from ftbl where a_id=""+i+"";
    else if(c.equals("First"))
      q= "Select distinct f_fare from ftbl where a_id=""+i+"";
    else if(c.equals("Economy"))
      q= "Select distinct e_fare from ftbl where a_id=""+i+"";
    Statement stmt= con.createStatement();
    ResultSet rs=stmt.executeQuery(q);
    if(rs.next()){
      FARE.setText(rs.getString(1));
      COST.setText(FARE.getText());
    }
  }catch(SQLException e){
    JOptionPane.showMessageDialog(rootPane,e.getMessage());
//CLEAR ACTION PERFORMED
COST.setText("");
FARE.setText("");
fid.setText("");
pname.setText("");
MALE.setSelected(false);
FEMALE.setSelected(false);
```

```
PASSNO.setText("");
PID.setText("");
LCARD.setSelected(false);
AGE.setText("");
P_NAME.setText("");
pDep.setSelectedIndex(0);
//SEARCH ACTION PERFORMED
try{
    String z,y ="",b="";
    b=P_NAME.getText();
    int i;
    String or;
   if(DESC.isSelected())
    or="desc";
   else
    or="asc";
   i=SORT.getSelectedIndex();
    switch (i) {
      case 0:
        y="p_name";
        break;
      case 1:
        y="PASS_NO";
        break;
    }
    z="order by "+y;
      String q="Select * from PTB WHERE p_name LIKE '%"+b+"%'"+z;
      Statement stmt= con.createStatement();
    ResultSet rs=stmt.executeQuery(q);
    DefaultTableModel dtm=(DefaultTableModel)tbl.getModel();
    while(dtm.getRowCount()>0){
     dtm.removeRow(0);
    }
    String aid,an,dep,arr,dtime,ff,bf,ef,dd,co;
    while(rs.next()){
      aid=(rs.getString(1));
      an=(rs.getString(2));
      dep=(rs.getString(3));
     arr=(rs.getString(4));
      dtime=(rs.getString(5));
      ff=(rs.getString(6));
      bf=(rs.getString(8));
```

```
ef=(rs.getString(9));
      dd=(rs.getString(10));
      co=rs.getString(11);
      Object nr[]={aid,an,dep,arr,dd,dtime,ff,bf,ef,co};
      dtm.addRow(nr);
    }
    }catch(Exception e){
    JOptionPane.showMessageDialog(rootPane,e.getMessage());
    }
//exit ACTION PERFORMED
this.dispose();
//REFRESH ACTION PERFORMED
display();
//LCARD FOCUS LOST
double i=Double.parseDouble(COST.getText());
if(LCARD.isSelected());
  COST.setText(""+(i*0.90));
```

## **REPORT:**



#### //IMPORT STATEMENTS

```
import java.sql.*;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
//CONNECTING MYSQL
Connection con;
    try{
      Class.forName("java.sql.Driver");
      con=DriverManager.getConnection("jdbc:mysql://localhost/project2017","root","pass");
    }
    catch(Exception e){
      JOptionPane.showMessageDialog(rootPane,e.getMessage());
    }
//DISPLAYING TABLE
try{
    String q= "Select* from ftbl natural join ptb";
    Statement stmt= con.createStatement();
    ResultSet rs=stmt.executeQuery(q);
    DefaultTableModel dtm=(DefaultTableModel)rtbl.getModel();
    while(dtm.getRowCount()>0){
```

```
dtm.removeRow(0);
    }
    String pd,pna,an,da,cla,co,depa,arri;
                                                 //change the string an their values
    while(rs.next()){
      pd=rs.getString(1);
      pna=rs.getString(2);
      an=rs.getString(3);
      depa=rs.getString(4);
      arri=rs.getString(5);
      da=rs.getString(6);
      cla=rs.getString(7);
      co=rs.getString(8);
      Object nr[]={pd,pna,an,depa,arri,da,cla,co};
      dtm.addRow(nr);
    }
  }
  catch(Exception e){
    JOptionPane.showMessageDialog(rootPane,e.getMessage());
 }
//FORM WINDOW OPENED
try{
    opencon();
    String q= "Select distinct a_name from ftbl order by a_name";
    Statement stmt= con.createStatement();
    ResultSet rs=stmt.executeQuery(q);
    aname.removeAllItems();
    while(rs.next())
      aname.addItem(rs.getString(1));
 }catch(Exception e){
    JOptionPane.showMessageDialog(rootPane,e.getMessage());
 }
//aname ACTION PERFORMED
try{
    String an=(String)aname.getSelectedItem();
    String q="Select distinct dep from ftbl where a_name='"+an+"'";
    Statement st=con.createStatement();
    ResultSet rs=st.executeQuery(q);
    departure.removeAllItems();
    while(rs.next()){
      departure.addItem(rs.getString(1));
    }
```

```
}
  catch(Exception e){
    JOptionPane.showMessageDialog(rootPane,e.getMessage());
 }
//display ACTION PERFORMED
try{
    String p,v,r,s,t,u;
    p= (String) FROM1.getSelectedItem();
    v=(String) FROM2.getSelectedItem();
    r= (String) FROM3.getSelectedItem();
    s= (String) TO1.getSelectedItem();
    t= (String) TO2.getSelectedItem();
    u= (String) TO3.getSelectedItem();
    String a = p+"/"+v+"/"+r;
    String b = s+"/"+t+"/"+u;
    String g= (String) aname.getSelectedItem();
    String h=(String) departure.getSelectedItem();
    String i=(String) arrival.getSelectedItem();
    String q= "Select p_id,P_name,a_id,dep,arr,dep_time,class,cost from ftbl natural join ptb
    where a_name=""+g+"" and dep=""+h+"" and arr="" + i + "" and dep_TIME between ""+a+""
    and ""+b+ """:
    Statement stmt= con.createStatement();
    ResultSet rs=stmt.executeQuery(q);
    DefaultTableModel dtm=(DefaultTableModel)rtbl.getModel();
    while(dtm.getRowCount()>0){
     dtm.removeRow(0);
                                                 //change the string an their values
    String pd,pna,an,da,cla,co,depa,arri;
    while(rs.next()){
      pd=rs.getString(1);
      pna=rs.getString(2);
      an=rs.getString(3);
      depa=rs.getString(4);
      arri=rs.getString(5);
      da=rs.getString(6);
      cla=rs.getString(7);
      co=rs.getString(8);
      Object nr[]={pd,pna,an,depa,arri,da,cla,co};
      dtm.addRow(nr);
    }
  }
```

```
catch(Exception e){
    JOptionPane.showMessageDialog(rootPane,e.getMessage());
 }
//exit ACTION PERFORMED
this.dispose();
//departure ACTION PERFORMED
try{
    opencon();
    String g= (String) aname.getSelectedItem();
    String d=(String) departure.getSelectedItem();
    String q= "Select distinct ARR from ftbl where a_name='" +g+"' && dep ='"+d+"' order by
    arr";
    Statement stmt= con.createStatement();
    ResultSet rs=stmt.executeQuery(q);
    arrival.removeAllItems();
    while(rs.next())
     arrival.addItem(rs.getString(1));
 }catch(Exception e){
    JOptionPane.showMessageDialog(rootPane,e.getMessage());
 }
```