INFORMATICS PRACTICES PROJECT

AIR-AMIGO'S AIRLINE MANAGEMENT SYSTEM

ANANT JAIN

BOARD ROLL NUMBER:5850335

XII-B

2016-2017

Amity International School,Noida
Sector-44
Department of Informatics Practices

Certificate:

This is to certify that **Anant Jain**,a student of class XII-B has successfully completed the project on **"AIRLINE MANAGEMENT SYSTEM"** under the guidance of Mrs Neha Sinha(Subject Teacher) during the year 2016-2017.

THEORY:

This project has been developed to assist as an airline management system. A user can add new records, delete existing records and view existing records for planes ,staff and passengers of their company. The project also contains a search option for passenger and staff.

The project has been developed as the airline management system for Air Amigo which is a fictional company.

The project has been made using the help of Netbeans IDE and Mysql.

MYSQL

The password for MySql is "amity" and the user is "root".

CODING FOR Mysql:

Create database project;

Use project;

Create table passenger(Name varchar(20),ID varchar(10),Address varchar(30),Phone varchar(11),DOF varchar(20),PayableAMt varchar(20),FlightNo varchar(20));

Create table planes(Manufacturer_Name varchar(20),Manufacturer_ID varchar(20),Model_NO varchar(10),Passenger_Capacity varchar(10),Date_Of_Addition varchar(20),no_of_engines varchar(10),No_of_Desks varchar(20));

Create table staff(Name varchar(20),ID varchar(10),Address varchar(30),Phone varchar(11),DOJ varchar(10),Salary varchar(20),Department varchar(20));

JAVA-NETBEANS

CODE FOR EXIT BUTTON(THROUGHOUT THE PROJECT):

System.exit(0);

CODE FOR "TO MAIN Page" BUTTON(THROUGHOUT THE PROJECT):

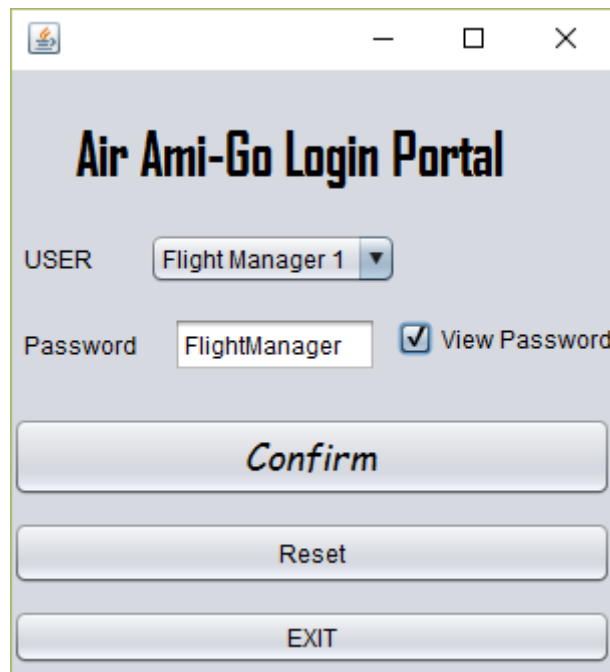this.setVisible(false);

    new MainPage().setVisible(true);

CODE FOR LOGOUT BUTTON(THROUGHOUT THE PROJECT):

this.setVisible(false);

    new Login().setVisible(true);

CODE FOR CLEAR BUTTON(THROUGHOUT THE PROJECT):

tf1.setText(null);
tf2.setText(null);
tf3.setText(null);
tf4.setText(null);
tf5.setText(null);
tf6.setText(null);
tf7.setText(null);

LOGIN PAGE

CODE FOR CONFIRM BUTTON:

```
    {if
((jcb.getSelectedIndex()==3)||(jcb.getSelectedIndex()==1)||(jcb.getSelectedIndex()==2))
    {String p = new String(jp1.getPassword());
```

```java
if(((jcb.getSelectedIndex()==3)||(jcb.getSelectedIndex()==1)||(jcb.getSelectedIndex()==2))
&&p.equals("FlightManager"))
    { JOptionPane.showMessageDialog(null,"Congratulations,You have entered the right
password!");
        this.setVisible(false);
        new MainPage().setVisible(true);}
    else JOptionPane.showMessageDialog(this,"Incorrect password for selected user");
    }
    {if (jcb.getSelectedIndex()==4)
    {String p = new String(jp1.getPassword());
    if((jcb.getSelectedIndex()==4)&&p.equals("GrStaff1"))
    { JOptionPane.showMessageDialog(null,"Congratulations,You have entered the right
password!");
        this.setVisible(false);
        new MainPage().setVisible(true);}
    else JOptionPane.showMessageDialog(this,"Incorrect password for selected user");
    }
    {if (jcb.getSelectedIndex()==5)
    {String p = new String(jp1.getPassword());
    if((jcb.getSelectedIndex()==5)&&p.equals("GrStaff2"))
    { JOptionPane.showMessageDialog(null,"Congratulations,You have entered the right
password!");
        this.setVisible(false);
        new MainPage().setVisible(true);}
    else JOptionPane.showMessageDialog(this,"Incorrect password for selected user");
    }}}
    {if (jcb.getSelectedIndex()==0)
    {String p = new String(jp1.getPassword());
    if((jcb.getSelectedIndex()==0))
    { JOptionPane.showMessageDialog(null,"Please select a user");}
    }}
    }
```

CODE FOR SELECT USER COMBOBOX:

```java
if ((jcb.getSelectedIndex()==3)||(jcb.getSelectedIndex()==1)||(jcb.getSelectedIndex()==2))
{jp1.setText("FlightManager");}
if (jcb.getSelectedIndex()==4)
{jp1.setText("GrStaff1");}
if (jcb.getSelectedIndex()==5)
{jp1.setText("GrStaff2");}
```
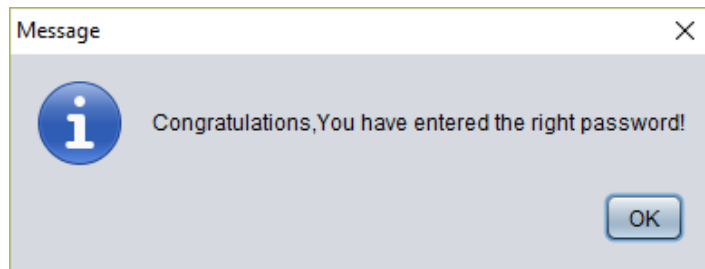
CODE FOR VIEW PASSWORD CHECK BOX:

```java
if (jcb1.isSelected())
{ jp1.setEchoChar((char)0);}
else
{jp1.setEchoChar('*');}
```

Message ✕

ℹ Congratulations,You have entered the right password!

OK

MAIN USER PAGE

AiR Aml-Go

EXIT SYSTEM	Add New Records	LOGOUT
	Remove Existing Records	
	View Records	
	Search Rercords	
	About	

CODE FOR Add New Records BUTTON:
```
new Add().setVisible(true);
```
CODE FOR Remove Existing Records BUTTON:
```
new Remove().setVisible(true);
```
CODE FOR View Records BUTTON:
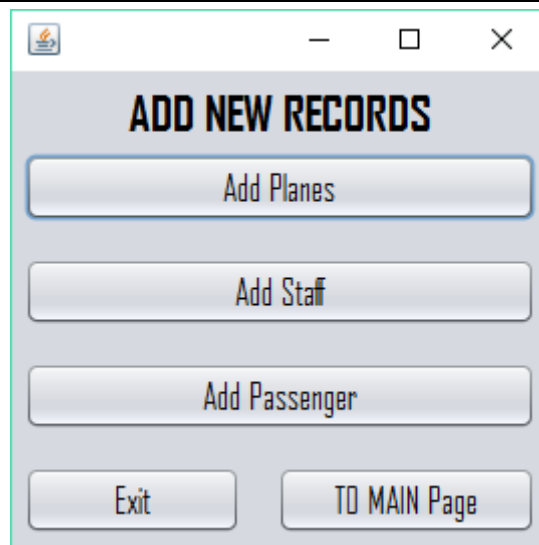```
new Record().setVisible(true);
```
**CODE FOR Search Records BUTTON:**
```
new Search().setVisible(true);
```
**CODE FOR About BUTTON:**
```
new About().setVisible(true);
```

# ADDING NEW RECORDS:



**CODE FOR ADD Planes Button:**

this.setVisible(false);

        new Add_Planes().setVisible(true);

**CODE FOR ADD Staff Button:**

this.setVisible(false);

new Add_Staff().setVisible(true);

**CODE FOR ADD Passenger Button:**

this.setVisible(false);

new Add_Passenger().setVisible(true);

### CODE FOR SUBMIT BUTTON(ADD PLANES):

```
String mna=tf1.getText();
String mid=tf2.getText();
String mn=tf3.getText();
String pc=tf4.getText();
String doa=tf5.getText();
String noe=tf6.getText();
String nod=tf7.getText();
try
{Class.forName("java.sql.DriverManager");
    Connection
con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","
amity");
```

```java
        Statement stmt=(Statement)con.createStatement();
        String q1="insert into planes
values("+mna+","+mid+","+mn+","+pc+","+doa+","+noe+","+nod+");";
        stmt.executeUpdate(q1);
        JOptionPane.showMessageDialog(this,"Plane Successfully Added");
    }
    catch(Exception e)
    {JOptionPane.showMessageDialog(null,e.getMessage());}
```

ADD STAFF

Name:	Anubhav Shukla
ID Number:	0002
Address:	NOIDA
Phone Number:	9810543663
Date of Joining (YYYY-MM-DD):	2016-01-09
Salary	3990000
Department/Type	Pilot

Exit Submit Clear TO MAIN Page

Message ×

Staff Member Successfully Added

OK

CODE FOR SUBMIT BUTTON(ADD STAFF):

```java
String name=tf1.getText();
String Id=tf2.getText();
String add=tf3.getText();
String pn=tf4.getText();
String doj=tf5.getText();
String sal=tf6.getText();
String dep=tf7.getText();
try
{Class.forName("java.sql.DriverManager");
```

```
Connection
con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","
amity");
Statement stmt=(Statement)con.createStatement();
String q1="insert into staff
values('"+name+"','"+Id+"','"+add+"','"+pn+"','"+doj+"','"+sal+"','"+dep+"');";
stmt.executeUpdate(q1);
JOptionPane.showMessageDialog(this,"Staff Member Successfully Added");
}
catch(Exception e)
     {JOptionPane.showMessageDialog(null,e.getMessage());}
```


CODE FOR SUBMIT BUTTON(ADD PASSENGER):
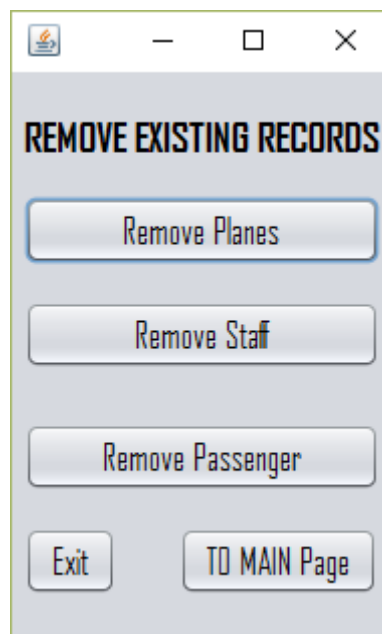
```
     String name=tf1.getText();
```

```
        String Id=tf2.getText();
        String add=tf3.getText();
        String pn=tf4.getText();
        String dof=tf5.getText();
        String pa=tf6.getText();
        String fn=tf7.getText();
        try
        {Class.forName("java.sql.DriverManager");
            Connection
con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","
amity");
            Statement stmt=(Statement)con.createStatement();
            String q1="insert into passenger
values('"+name+"','"+Id+"','"+add+"','"+pn+"','"+dof+"','"+pa+"','"+fn+"');";
            stmt.executeUpdate(q1);
            JOptionPane.showMessageDialog(this,"Passenger Successfully Added");
        }
        catch(Exception e)
        {JOptionPane.showMessageDialog(null,e.getMessage());}
```

REMOVING EXISTING RECORDS:

CODE FOR Remove Planes Button:
```
this.setVisible(false);
        new Remove_Planes().setVisible(true);
```
CODE FOR Remove Staff Button:
```
this.setVisible(false);
        new Remove_Staff().setVisible(true);
```
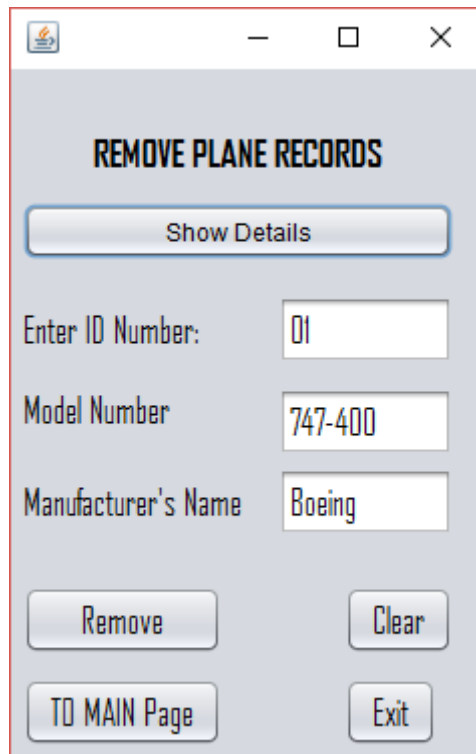**CODE FOR Remove Passenger Button:**
```
this.setVisible(false);
        new Remove_Passenger().setVisible(true);
```

CODE FOR SHOW DETAILS BUTTON:

```
String id=tf1.getText();
try
{Class.forName("java.sql.DriverManager");
    Connection
con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","
amity");
    Statement stmt=(Statement)con.createStatement();
    String q1="select * from planes where Manufacturer_ID='"+id+"';";
    ResultSet rs=(ResultSet)stmt.executeQuery(q1);
    if(rs.next())
    {
        String mno=rs.getString("Model_No");
        String mn=rs.getString("Manufacturer_Name");
        tf2.setText(mno);
        tf3.setText(mn);
        b2.setEnabled(true);
    }
    else
    {JOptionPane.showMessageDialog(null,"Please enter correct ID");}
}
catch(Exception e)
{JOptionPane.showMessageDialog(null,e.getMessage());}
```

CODE FOR REMOVE BUTTON:

```
try
{Class.forName("java.sql.DriverManager");
```

```
            Connection
con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","
amity");
        Statement stmt=(Statement)con.createStatement();
        String q1="delete from planes where Manufacturer_ID='"+tf1.getText()+"';";
        stmt.executeUpdate(q1);
        JOptionPane.showMessageDialog(this,"Plane Successfully Removed");
        tf1.setText("");
        tf2.setText("");
        tf3.setText("");
        b2.setEnabled(false);
    }
    catch(Exception e)
    {JOptionPane.showMessageDialog(null,e.getMessage());}
```


CODE FOR SHOW DETAILS BUTTON:

```
    String id=tf1.getText();
    try
    {Class.forName("java.sql.DriverManager");
        Connection
con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","
amity");
        Statement stmt=(Statement)con.createStatement();
        String q1="select * from staff where ID='"+id+"';";
        ResultSet rs=(ResultSet)stmt.executeQuery(q1);
        if(rs.next())
        {
            String n=rs.getString("Name");
            String pn=rs.getString("Phone");
```

```java
            tf2.setText(n);
            tf3.setText(pn);
            b2.setEnabled(true);
        }
        else
        {JOptionPane.showMessageDialog(null,"Please enter correct ID");}
    }
    catch(Exception e)
    {JOptionPane.showMessageDialog(null,e.getMessage());}
```

CODE FOR REMOVE BUTTON:

```java
    try
    {Class.forName("java.sql.DriverManager");
        Connection
con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","
amity");
        Statement stmt=(Statement)con.createStatement();
        String q1="delete from staff where ID='"+tf1.getText()+"';";
        stmt.executeUpdate(q1);
        JOptionPane.showMessageDialog(this,"Staff Memeber Successfully Removed");
        tf1.setText("");
        tf2.setText("");
        tf3.setText("");
        b2.setEnabled(false);
    }
    catch(Exception e)
    {JOptionPane.showMessageDialog(null,e.getMessage());}
```


CODE FOR SHOW DETAILS BUTTON:

```java
String id=tf1.getText();
try
{Class.forName("java.sql.DriverManager");
    Connection
con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","
amity");
    Statement stmt=(Statement)con.createStatement();
    String q1="select * from passenger where ID='"+id+"';";
    ResultSet rs=(ResultSet)stmt.executeQuery(q1);
    if(rs.next())
    {
        String n=rs.getString("Name");
        String pn=rs.getString("Phone");
        tf2.setText(n);
        tf3.setText(pn);
        b2.setEnabled(true);
    }
    else
    {JOptionPane.showMessageDialog(null,"Please enter correct ID");}
}
catch(Exception e)
{JOptionPane.showMessageDialog(null,e.getMessage());}
```

CODE FOR REMOVE BUTTON:

```java
try
{Class.forName("java.sql.DriverManager");
    Connection
con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","
amity");
    Statement stmt=(Statement)con.createStatement();
    String q1="delete from passenger where ID='"+tf1.getText()+"';";
    stmt.executeUpdate(q1);
    JOptionPane.showMessageDialog(this,"Passenger Successfully Removed");
    tf1.setText("");
    tf2.setText("");
    tf3.setText("");
    b2.setEnabled(false);
}
catch(Exception e)
{JOptionPane.showMessageDialog(null,e.getMessage());}
```

VIEWING EXISTING RECORDS:

CHECK PASSENGER RECORDS

Name	ID number	Address	Phone Nu...	Date Of Fli...	Payable A...	Flight Num...
Parthiv Gupta	0001	Delhi(110011)	9876567891	2016-12-24	6000	AA-001
Ashish Khur...	0002	Delhi 6	012042828...	2016-11-27	6000	AA-002

CODE FOR FETCH BUTTON(PASSENGER RECORDS):

```
DefaultTableModel dtm=(DefaultTableModel)tb1.getModel();
      dtm.setRowCount(0);
try
{Class.forName("java.sql.DriverManager");
Connection
con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","
amity");
Statement stmt=(Statement)con.createStatement();
String q1="select * from passenger;";
ResultSet rs=(ResultSet)stmt.executeQuery(q1);
while(rs.next())
{
String name=rs.getString("Name");
String Id=rs.getString("ID");
String add=rs.getString("Address");
String pn=rs.getString("Phone");
String dof=rs.getString("DOF");
String pay=rs.getString("PayableAMT");
```
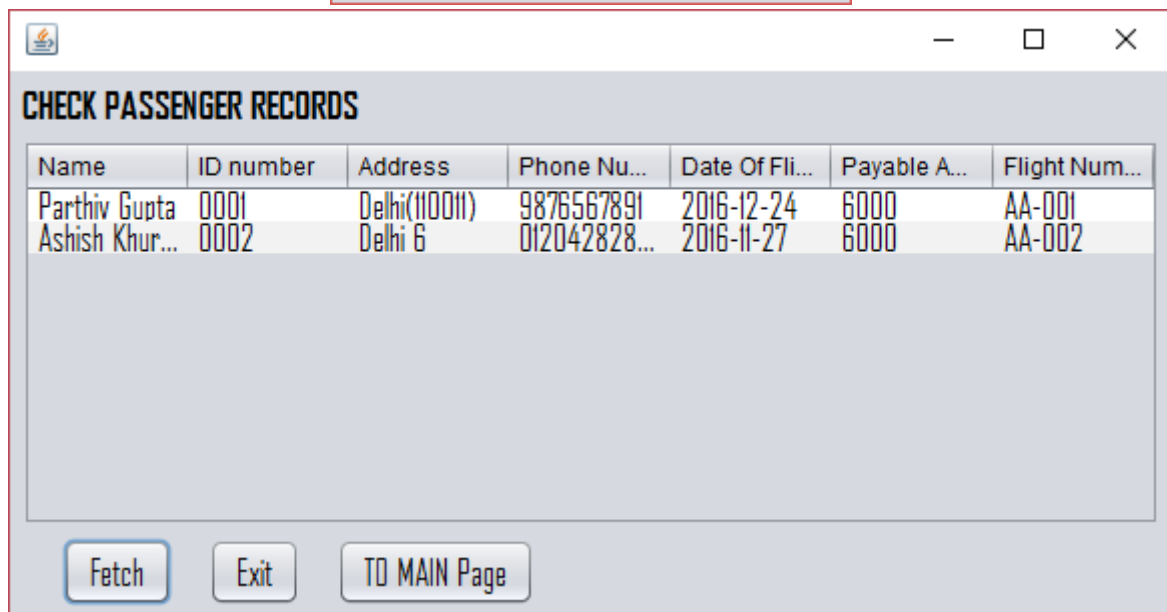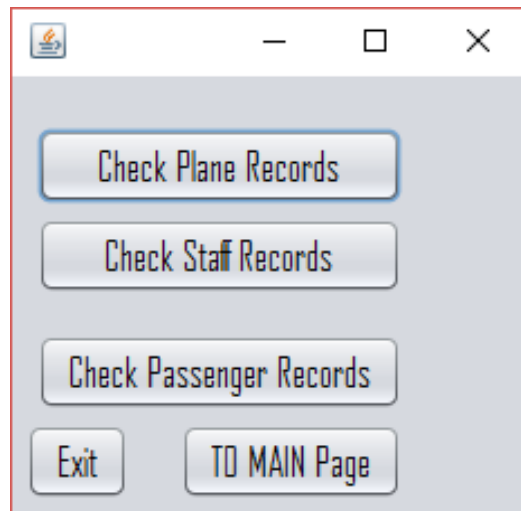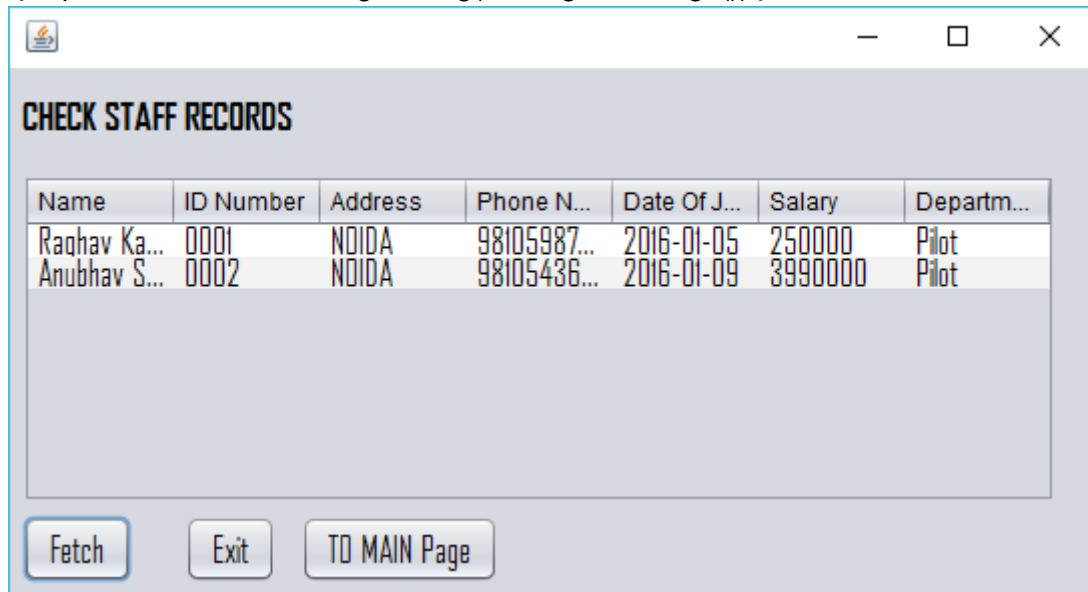
```
String fn=rs.getString("FlightNo");
Object ob[]={name,Id,add,pn,dof,pay,fn};
dtm.addRow(ob);
}
}
catch(Exception e)
     {JOptionPane.showMessageDialog(null,e.getMessage());}
```
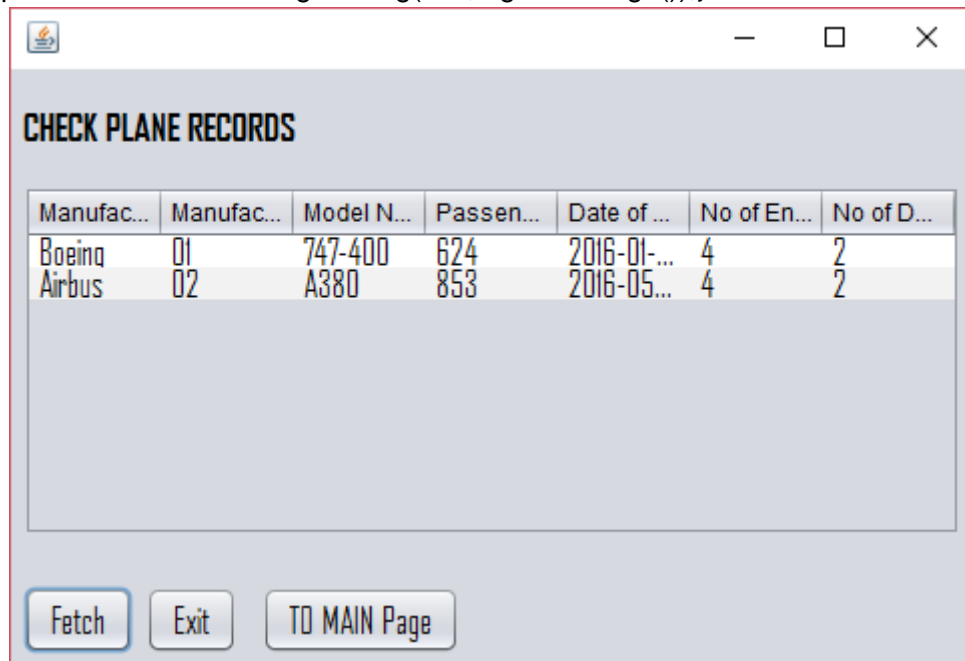

CODE FOR FETCH BUTTON(STAFF RECORDS):
```
DefaultTableModel dtm=(DefaultTableModel)tb1.getModel();
     dtm.setRowCount(0);
try
{Class.forName("java.sql.DriverManager");
Connection
con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","
amity");
Statement stmt=(Statement)con.createStatement();
String q1="select * from staff;";
ResultSet rs=(ResultSet)stmt.executeQuery(q1);
while(rs.next())
{
String name=rs.getString("Name");
String Id=rs.getString("ID");
String add=rs.getString("Address");
String pn=rs.getString("Phone");
String doj=rs.getString("DOJ");
String sal=rs.getString("Salary");
String dep=rs.getString("Department");
Object ob[]={name,Id,add,pn,doj,sal,dep};
dtm.addRow(ob);
}
}
```
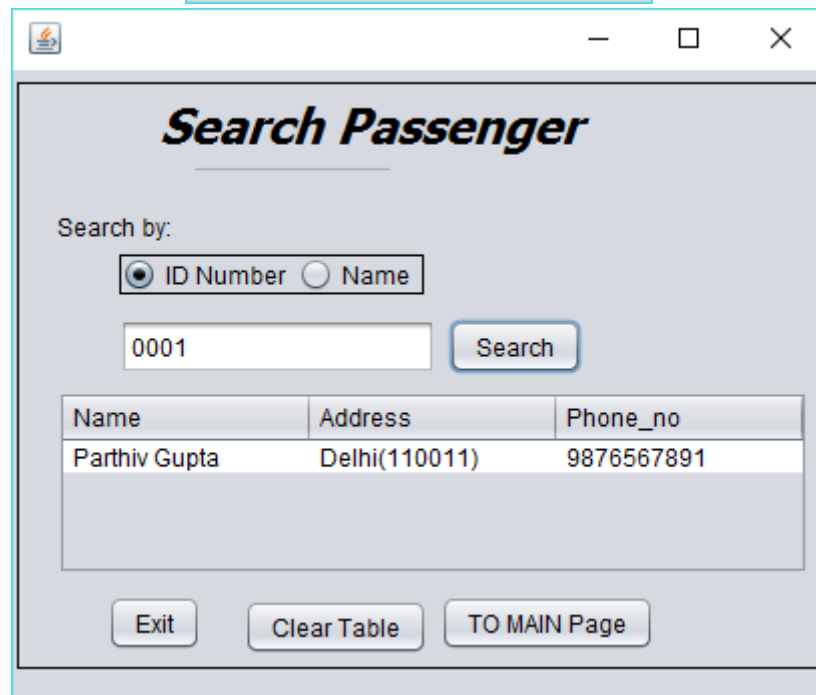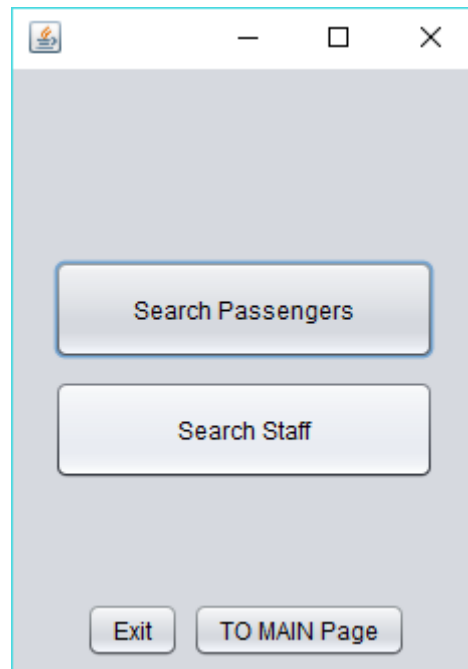
catch(Exception e)
    {JOptionPane.showMessageDialog(null,e.getMessage());}

CODE FOR FETCH BUTTON(PLANE RECORDS):

```
DefaultTableModel dtm=(DefaultTableModel)tb1.getModel();
      dtm.setRowCount(0);
try
{Class.forName("java.sql.DriverManager");
Connection
con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","
amity");
Statement stmt=(Statement)con.createStatement();
String q1="select * from planes;";
ResultSet rs=(ResultSet)stmt.executeQuery(q1);
while(rs.next())
{
String mn=rs.getString("Manufacturer_Name");
String mId=rs.getString("Manufacturer_ID");
String mno=rs.getString("Model_NO");
String pc=rs.getString("Passenger_Capacity");
String doa=rs.getString("Date_Of_Addition");
String noe=rs.getString("No_of_engines");
String nod=rs.getString("No_of_desks");
Object ob[]={mn,mId,mno,pc,doa,noe,nod};
dtm.addRow(ob);
}
}
catch(Exception e)
      {JOptionPane.showMessageDialog(null,e.getMessage());}
```

SEARCHING EXISTING RECORDS:

CODE FOR SEARCH PASSENGER:

```
    String id=tf1.getText();
      DefaultTableModel dtm=(DefaultTableModel)tb1.getModel();
      dtm.setRowCount(0);
      try
      {Class.forName("java.sql.DriverManager");
          Connection
con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","
amity");
          Statement stmt=(Statement)con.createStatement();
          String q1=";";
          if(rb1.isSelected())
```

```
            {
                q1="select * from passenger where ID='"+id+"';";
            }
            else
            {q1="select * from passenger where name='"+id+"';";}
            ResultSet rs=(ResultSet)stmt.executeQuery(q1);
            if(rs.next())
            {
                String name=rs.getString("Name");
                String add=rs.getString("address");
                String pn=rs.getString("phone");
                Object ob[]={name,add,pn};
                dtm.addRow(ob);
            }
            else
            {if(rb1.isSelected())
                JOptionPane.showMessageDialog(null,"Please enter correct ID");
                else
                JOptionPane.showMessageDialog(null,"Please enter correct Name");
            }
        }
        catch(Exception e)
        {JOptionPane.showMessageDialog(null,e.getMessage());}
```


CODE FOR SEARCH STAFF:

```
    String id=tf1.getText();
    DefaultTableModel dtm=(DefaultTableModel)tb1.getModel();
    dtm.setRowCount(0);
    try
    {Class.forName("java.sql.DriverManager");
```
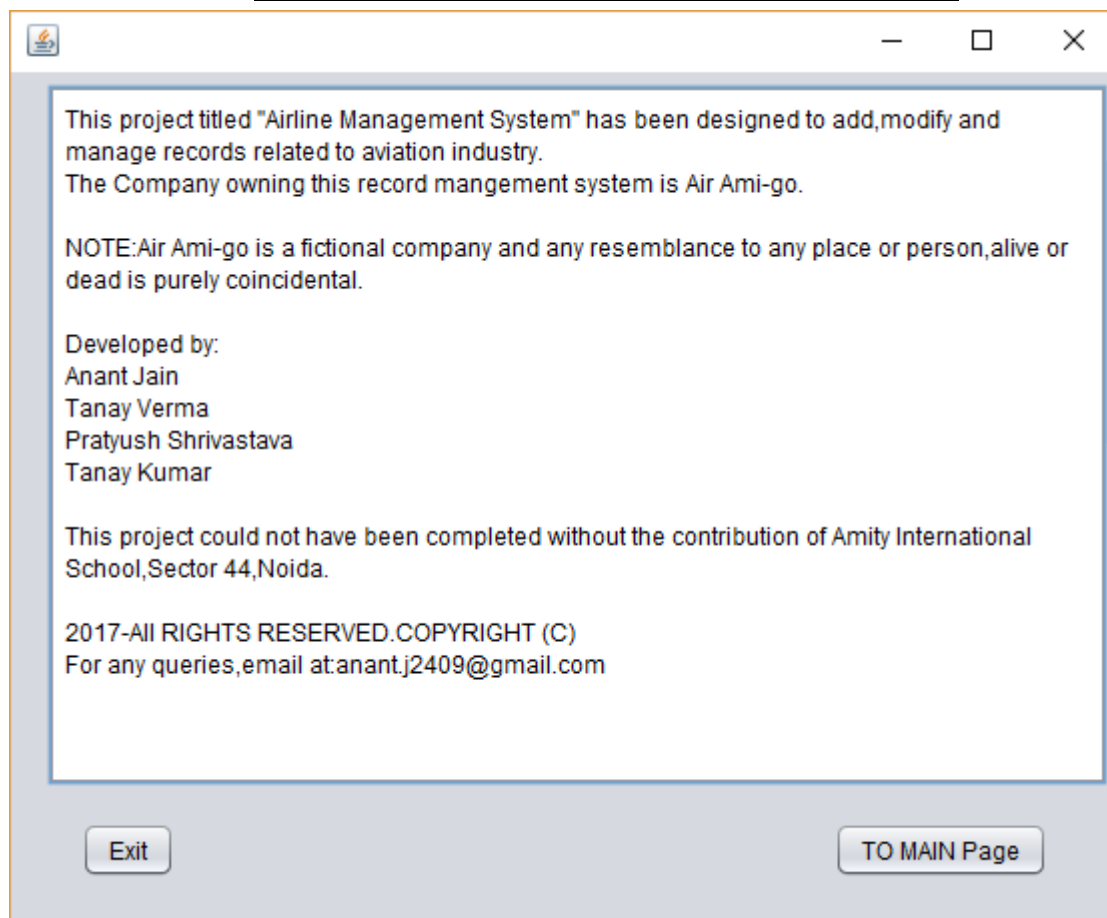
```
        Connection
con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","
amity");
        Statement stmt=(Statement)con.createStatement();
        String q1=";";
        if(rb1.isSelected())
        {
           q1="select * from staff where ID='"+id+"';";
        }
        else
        {q1="select * from staff where name='"+id+"';";}
        ResultSet rs=(ResultSet)stmt.executeQuery(q1);
        if(rs.next())
        {
           String name=rs.getString("Name");
           String add=rs.getString("address");
           String pn=rs.getString("phone");
           Object ob[]={name,add,pn};
           dtm.addRow(ob);
        }
        else
        {if(rb1.isSelected())
           JOptionPane.showMessageDialog(null,"Please enter correct ID");
           else
           JOptionPane.showMessageDialog(null,"Please enter correct Name");
        }
     }
     catch(Exception e)
     {JOptionPane.showMessageDialog(null,e.getMessage());}
```

ABOUT PROJECT PAGE:

This project titled "Airline Management System" has been designed to add,modify and manage records related to aviation industry.
The Company owning this record mangement system is Air Ami-go.

NOTE:Air Ami-go is a fictional company and any resemblance to any place or person,alive or dead is purely coincidental.

Developed by:
Anant Jain
Tanay Verma
Pratyush Shrivastava
Tanay Kumar

This project could not have been completed without the contribution of Amity International School,Sector 44,Noida.

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For any queries,email at:anant.j2409@gmail.com

Exit   TO MAIN Page

THANK YOU

Bibliography:

- www.google.com
- Wolfram Alpha
- www.wikipedia.org
- Quora