# Airlines Booking System

## **Team Members**

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## 1. Project Objective

- -The main objective of Airlines Booking System is to manage the details of Airlines Ticket, Flights, Customers, Booking, create user-friendly efficient and secure platform that allows the user to book flights, manage their reservations, and reduce the manual work where the user can create account and have the accessibility to select as many flights as he wanted at the preferred time.
- -The system provides a simple and intuitive interface that enables users to search for flights based on destination.
- -The system should allow the user to view flight schedules, seat availability and choose their preferred seats.
- -Additionally, the system should be able to manage user information, including personal details and travel history.

#### Programming languages used:

- JAVA
- SQL

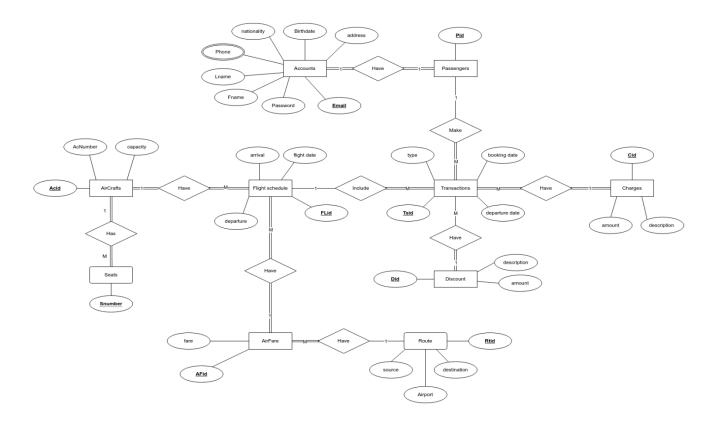
#### **Used Tools:**

• GUI



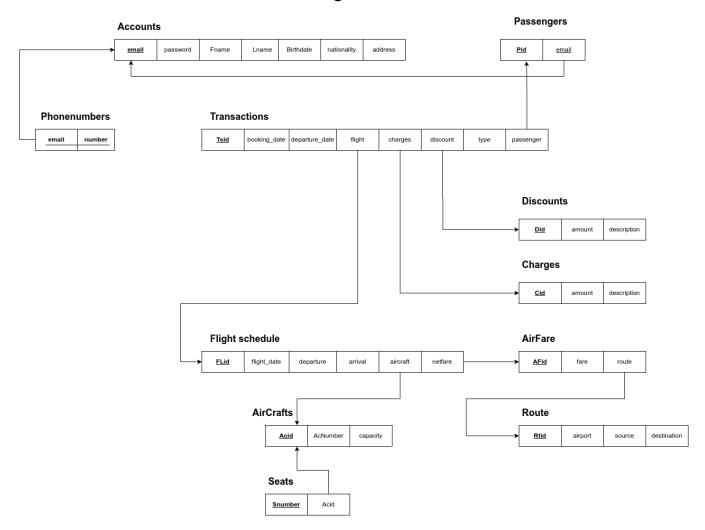
# 2. Project Diagrams

# 2.1. Entity Relation Diagram

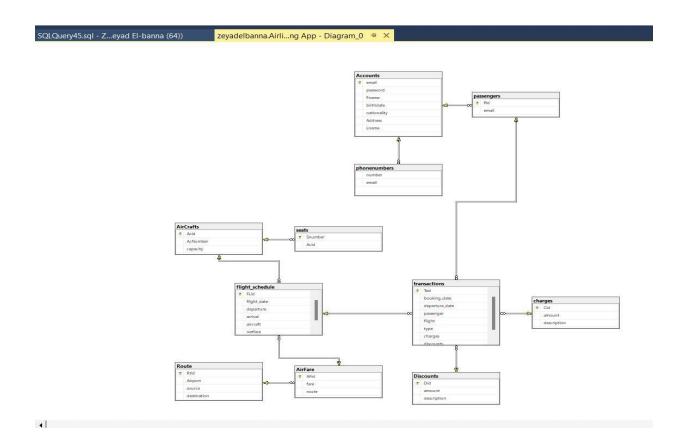




## 2.2 Relational Model Diagram







# 3. SQL Queries

Main (connet to database)

#### **libraries**

```
package finalproject;
import java.io.*;
import java.sql.DriverManager;
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.util.logging.Level;
import java.util.logging.Logger;
public class FinalProject {
```

### Login button



## Register button

catch (Exception e )

Home f2 = new Home();



```
private void jauthonizationerformed(java_awt_event_ActionEvent_evt) {
    try {
        Class.forHame("com.microsoft.sqlserver.jdbc.SqlServerDriver");
        String url="jdbc:sqlserver://ExtADELEANNA:1433;DatabaseName=Airlines Booking App;IntegratedSecurity=true;enc Connection com = DrivetManager.getConnection(url);
        String fname , lname , nat , phonel,phone2 , adr , email , password , d , m , y ;
        fname = "nume_getText();
        nat = (String) nestcon.getSelectedItem();
        phonel = phone.getText();
        nat = (String) nestcon.getText();
        adr = Address.getText();
        deni = _.getText();
        password = pass.getText();
        deni = _.getText();
        password = pass.getText();
        password = pass.
```

#### Confirm button in ticket info



### Confirm button in flight list



### Search button in flight list

```
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) (

try {

Class.forName("com.microsoft.sqlserver.jdbc.SqLserverDriver");

String url="jdbc.sqlserver://ZEYADELBANNA:1433;DatabaseName-Airlines Booking App;integratedSecurity=true;enc Connection con = DriverManager.getConnection(url);

String source = s.getText();

String sql = "select * from flight_schedule as f, AirFare as a , Route as r where r.Rtid = a.route and f.net

PreparedStatement pst = con.prepareStatement(sql);

pst.setString(1,source);

pst.setString(2,distination);

ResultSet rs = pst.executeQuery();

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if(rs.next()) {

do

{

String flightn , s , d , date , time , aname , tprice;

flightn = rs.getString(1);

s = rs.getString(1);

date = rs.getString(2);

time = rs.getString(3);

aname = rs.getString(3);

aname = rs.getString(3);

aname = rs.getString(1);
```



**Book List Search** 

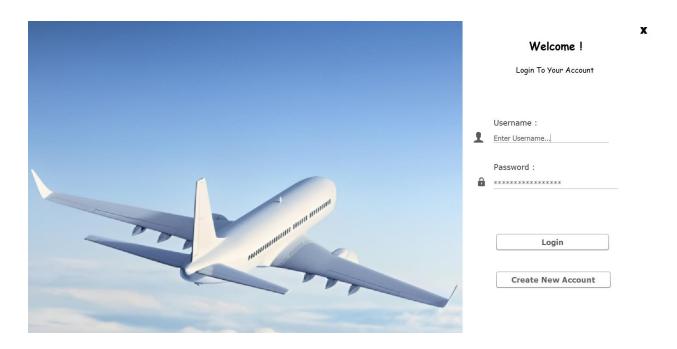


```
String url="jdbc:sqlserver://ZEYADELBANNA:1433;DatabaseName=Airlines Booking App;integratedSecurity=true;end
                     Connection con = DriverManager.getConnection(url);
                     String sql = "select * from flight_schedule as f, AirFare as a , Route as r , transactions as t, Passengers
                               String flightn , aname ,bdate,ddate, tprice ;
                               tprice = rs.getString(8);
                               String DBdata[] ={ flightn , aname , ddate ,bdate ,tprice};
finalproject.BookList > 💩 jButton 1ActionPerformed
                              ddate = rs.getString(16);
                              String DBdata[] ={ flightn , aname , ddate ,bdate ,tprice};
                              DefaultTableModel tb = (DefaultTableModel)t2.getModel();
                              tb.addRow(DBdata);
144
 -
              catch (Exception e )
                   JOptionPane.showMessageDialog(null, e);
 -
154
                    Home f2 = new Home();
```



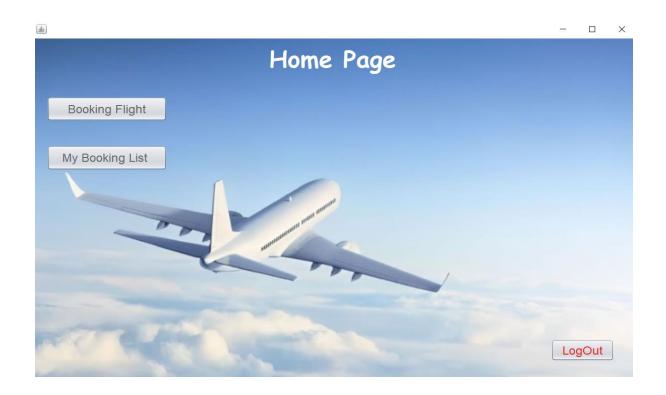
# 4. Project Screenshots

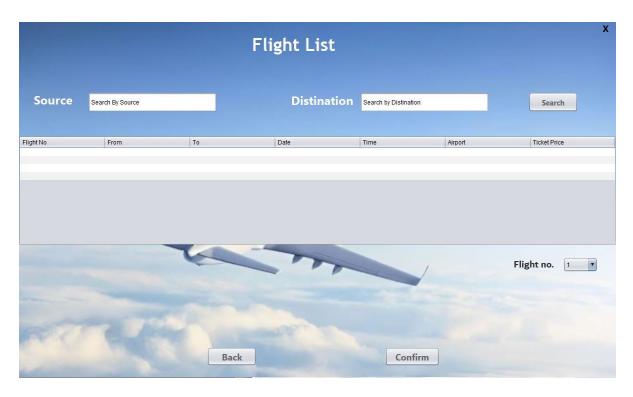
# 4.1. Login Page

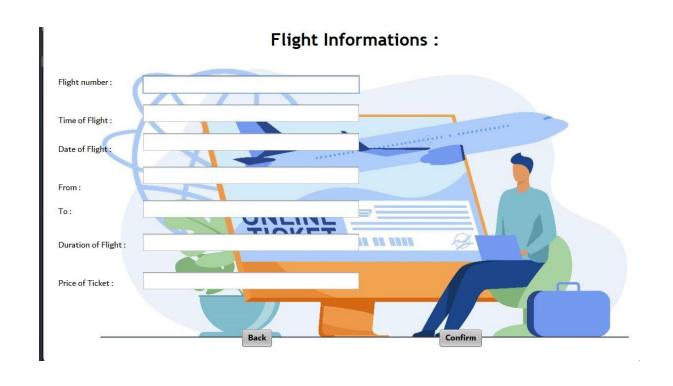


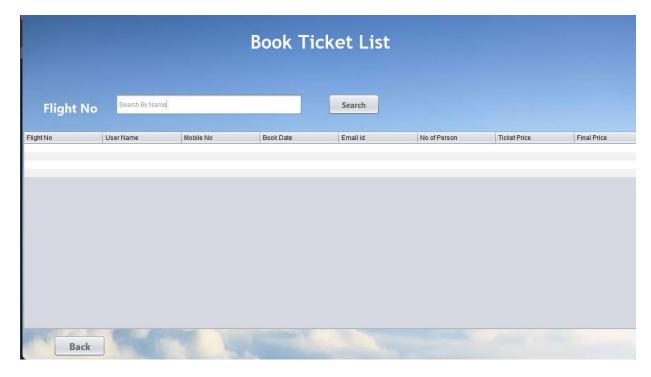














## Data base tables

### Accounts

	email	password	Fname	birthdate	nationality	Address	Lname
1	ahmed@gmail.com	78546	ahmed	4-Jun1908	Bangladeshi	alex	ashraf
2	ali@gmail.com	78965	ali	2-Jun1910	Argentine	cairo	ali
3	asad@gmail.com	475896	asad	6-Jul1911	Cameroonian	aswan	ali
4	ashraf@gmail.com	451214	ashraf	4-Jul1909	Austrian	cairo	elbanna
5	elbanna@gmail.com	74589	zeyad	4-Sep1908	Austrian	cairo	elbanna
6	hoda@gmail.com	456	hoda	1912-05-04	Argentine	alex	ahmed
7	mahmoud@gmail.com	452154	mahmoud	4-Aug1911	Belarusian	cairo	elbanna
8	mazen@gmail.com	254	mazen	2005-05-10	american	115745658	ashraf
9	mena@gmail.com	789	mena	1907-05-03	Angolan	gouna	ashraf
10	menna@gamil.com	963	menna	1910-05-13	Austrian	mayo	ashraf
11	mona@gmail.com	7895	mona	5-Jun1923	Australian	loxur	ibrahim
12	ofa@gmail.com	7452	ofa	3-Aug1907	Argentine	cairo	ashraf
13	rrtrtrt			1-Jan1905	Afghan		
14	saeed@gmail.com	4785	saeed	5-Jul1928	Argentine	giza	ali
15	salah@gmail.com	47587	salah	6-May -1914	Belarusian	giza	ali
16	zeyad@gmail.com	78965	zeyad	1-Sep1911	Austrian	helwan	ashraf

### Aircraft



### Airfare



## Charges





#### **Discounts**



## Flight Schedule



### **Passengers**

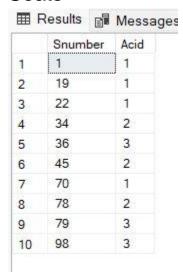


#### Route





### Seats



## **Transactions**

■ Results		■ Messages						
	Tsid	booking_date	departure_date	passenger	flight	type	charges	discounts
1	1	2023-02-02	2023-06-20	10	1	economic	8	154
2	2	2022-03-03	2023-06-11	22	2	bussness	17	478
3	32	11-5-1441	2022-01-01	97	1	First	17	154
4	100	6-6-3159	20:30:00.0000000	79	1	First	17	154

### Phone numbers

	number	email	
1	01441215	asad@gmail.com	
2	011223365	asad@gmail.com	

