Airline Reservation System

COURSE TITLE: ADVANCED PROGRAMING

GROUP NUMBER: 4

PROJECT TITLE: AIRLINE RESERVATION SYSTEM

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Abstract:

This report is talking about our implementation for more easier and comfortable airline reservation system

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1-user

1.1 confirmation that he is our client

1.1.1 tickets booking

2-registeration

3-admin

2.1-Add flight

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Introduction and purpose

An airline reservation system is an application built in java with a graphical user interface (GUI) that enables travelers to book and manage their flights with ease. It is a crucial component of the aviation industry that allows customers to search for available flights, pay for their tickets, receive confirmation of their bookings and more.
The app provides users with an intuitive and easy-to-use experience, with it's simple and easy interference which you can get used to fast it interactively deals with the user until the user request to terminate the program.

the airline reservation system can benefit both customers and airlines by providing a seamless booking experience and streamlining operational for airlines.

- **features and functionality of the project**

Interface:

After opening the project, you will be presented with an interface that allows you to choose whether to interact with the system as a user, admin, or first-time guest. If you are using the system for the first time, you will need to register first before proceeding.

Option 1: User:

1-confirmation that you are a registered user.

We have a file called "User" in which we will search for your name and password to verify your name and password. If the username and password match, the program will continue. Otherwise, you will need to try again or go back to the main page.

2.1-ticket booking

Where the user can book a flight ticket, by selecting the departure and destination destination from the available flights. After that, we will search for all available flights to that destination from our “flight” file, and the available options will be displayed on the table, and the flight date that suits you will be chosen

2.3- information about the destination country

once you click on it, we will display information about that country you selected from a set of files that we designed before called "countries" that contain information about various countries. We will provide you with information about the country you have selected, including some of its landmarks.

Option 2: registration

If you are a first time user, you will select this option and you will be asked to enter a username, password and some information about yourself and we will save it in our "User" file, so next time you use our system you will log in as a user.

Option 3: admin

When you choose that option, you will have another 2 panel to use:

1-Add Flights

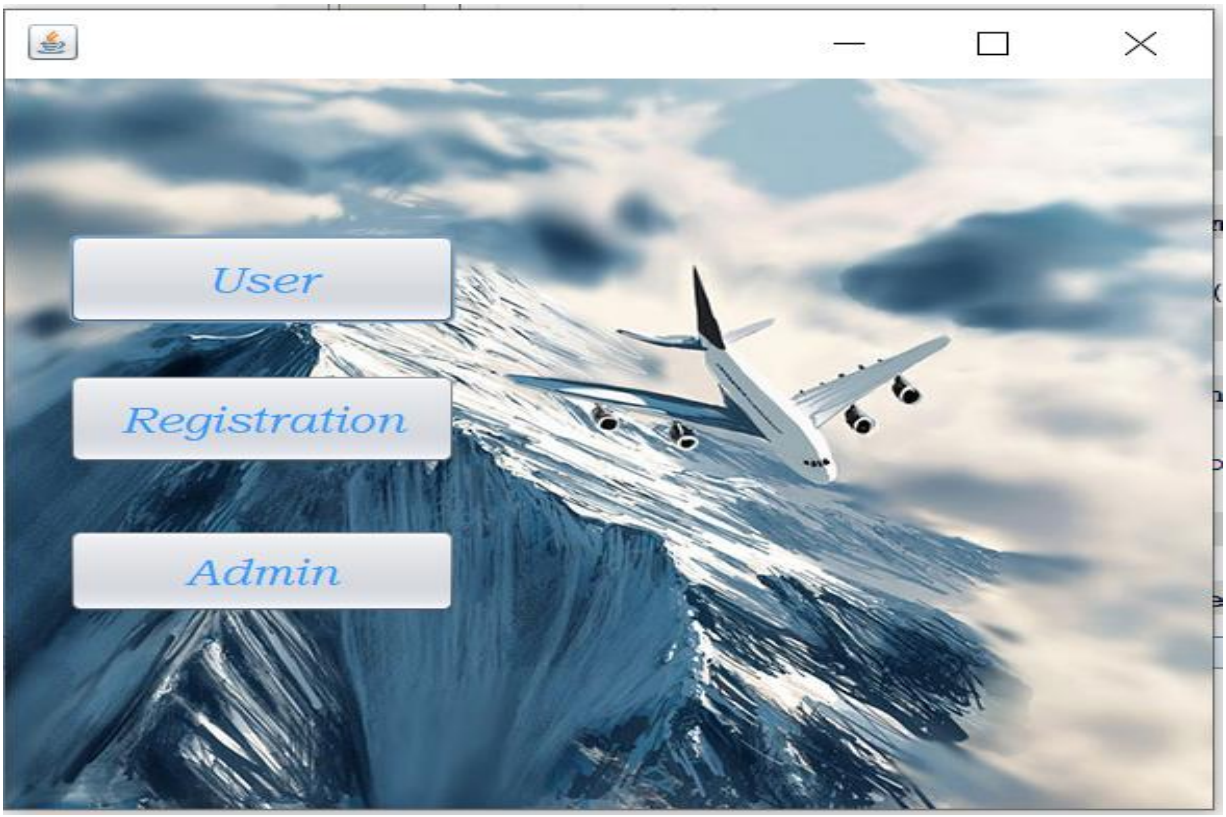
As admin you can add flights in "Flight" file you have to add flight name, flight date, destination and some other information about the flight.

2-Delete Flight

If you wish to cancel a flight then you will choose this option and we will delete all of its data from “Flight “file.

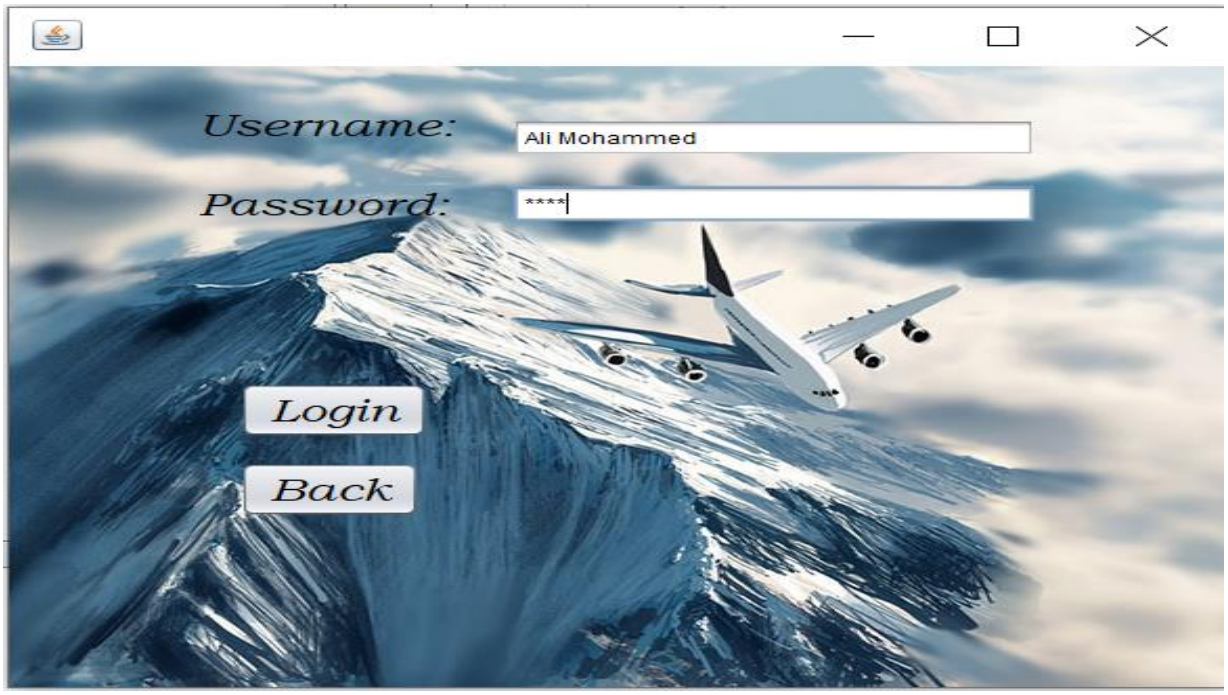
- **snapshots of the project while running**

Main Class login: here we have 3 Button(User,Registration,Admin)

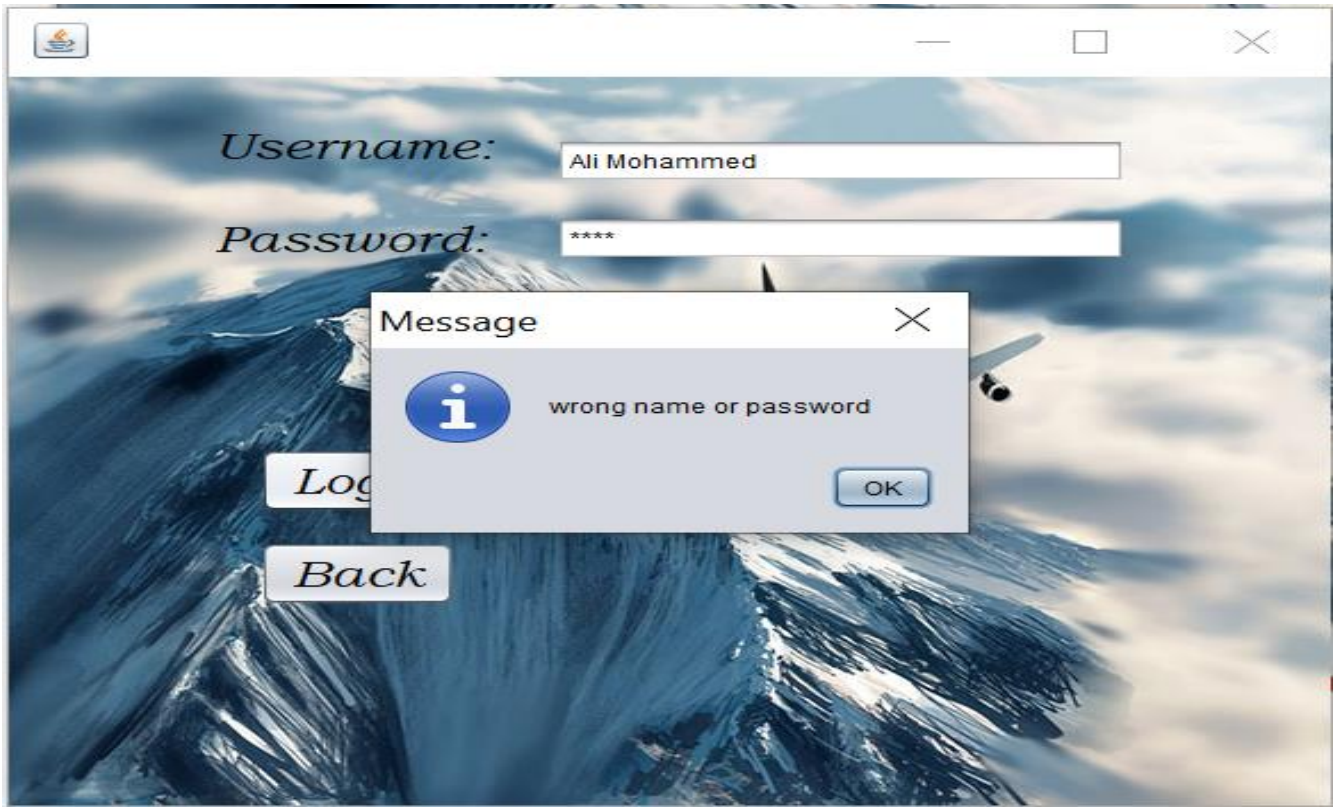


Main Class login : Clicked User

Main Class login : Clicked User (entered wrong name or wrong password)

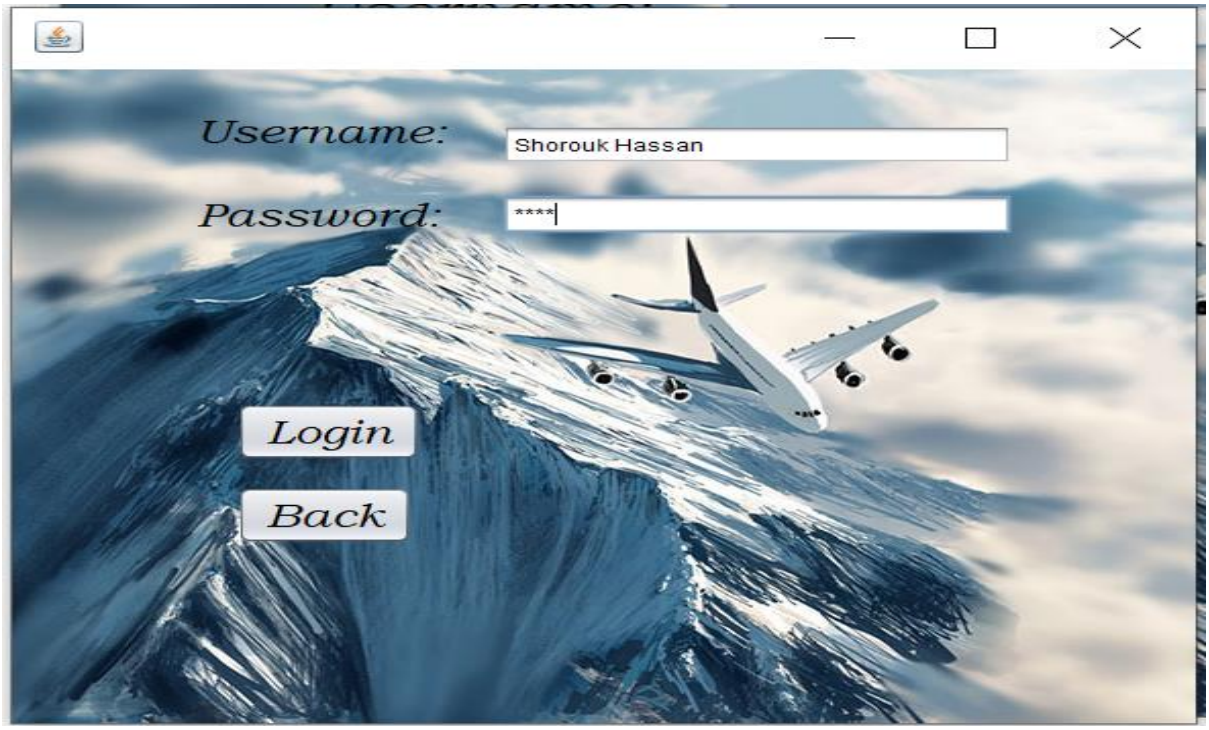


entered wrong name or wrong password before clicked login

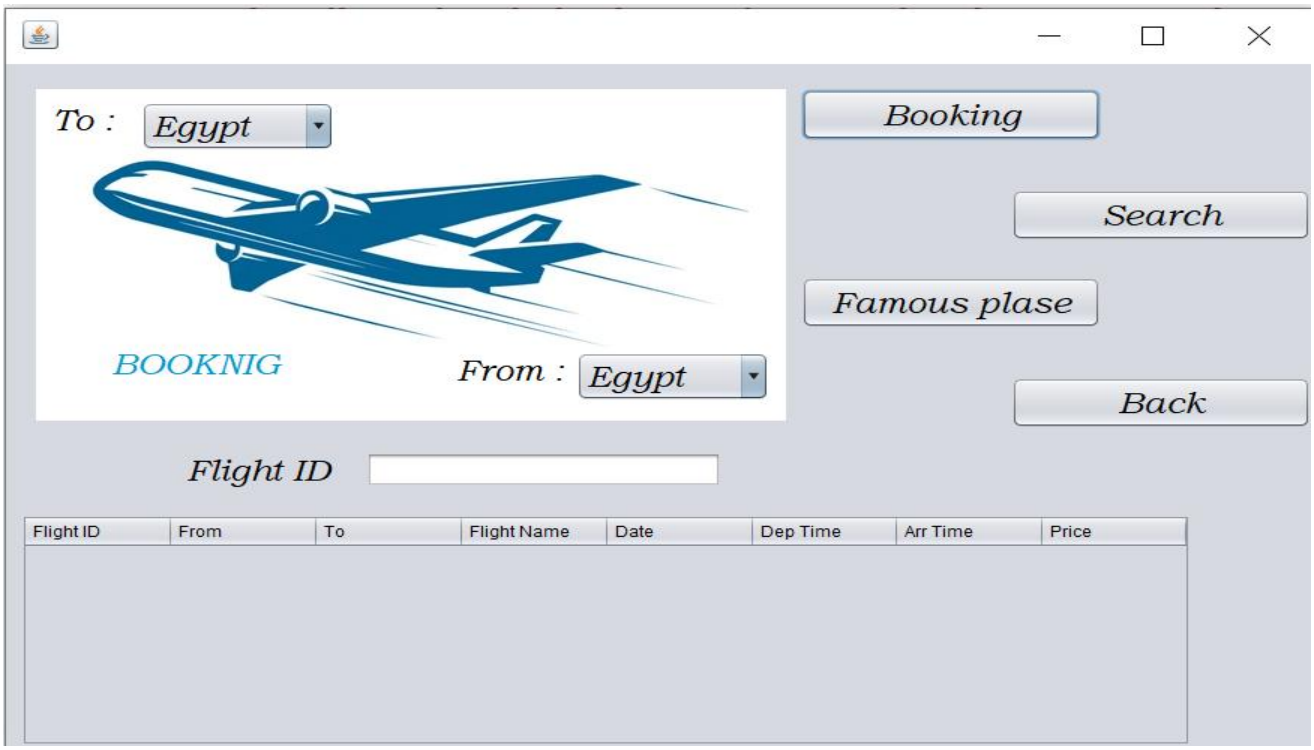


entered wrong name or wrong password after clicked login

Main Class login : Clicked User (entered right name and password)



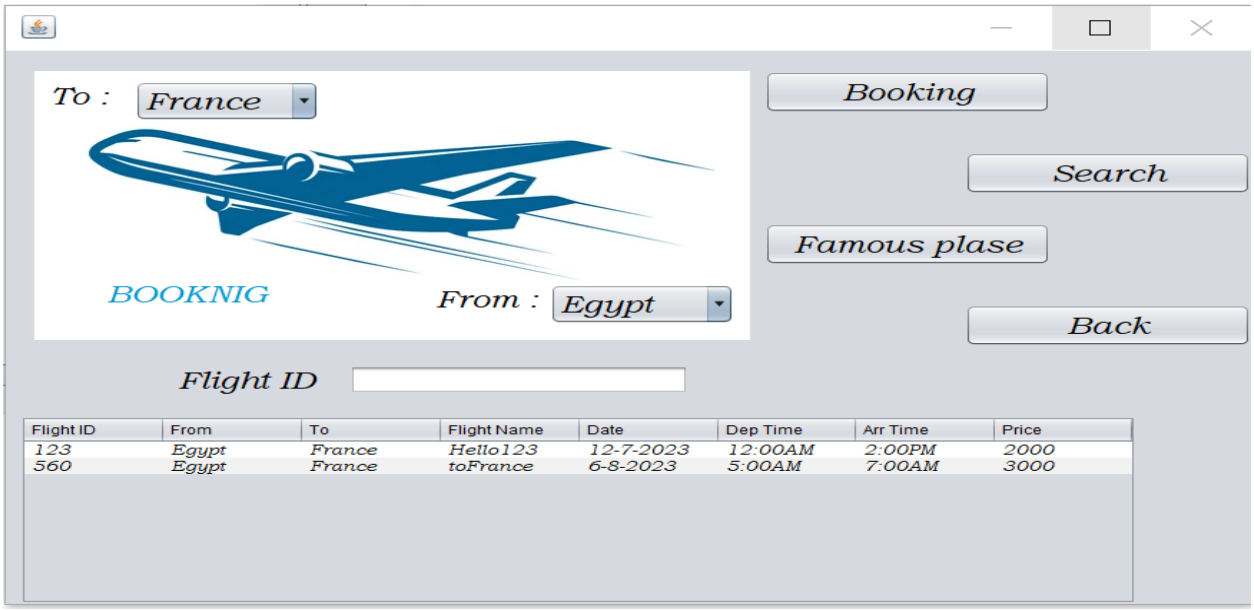
entered right name and password before clicked login



entered right name and password after clicked login

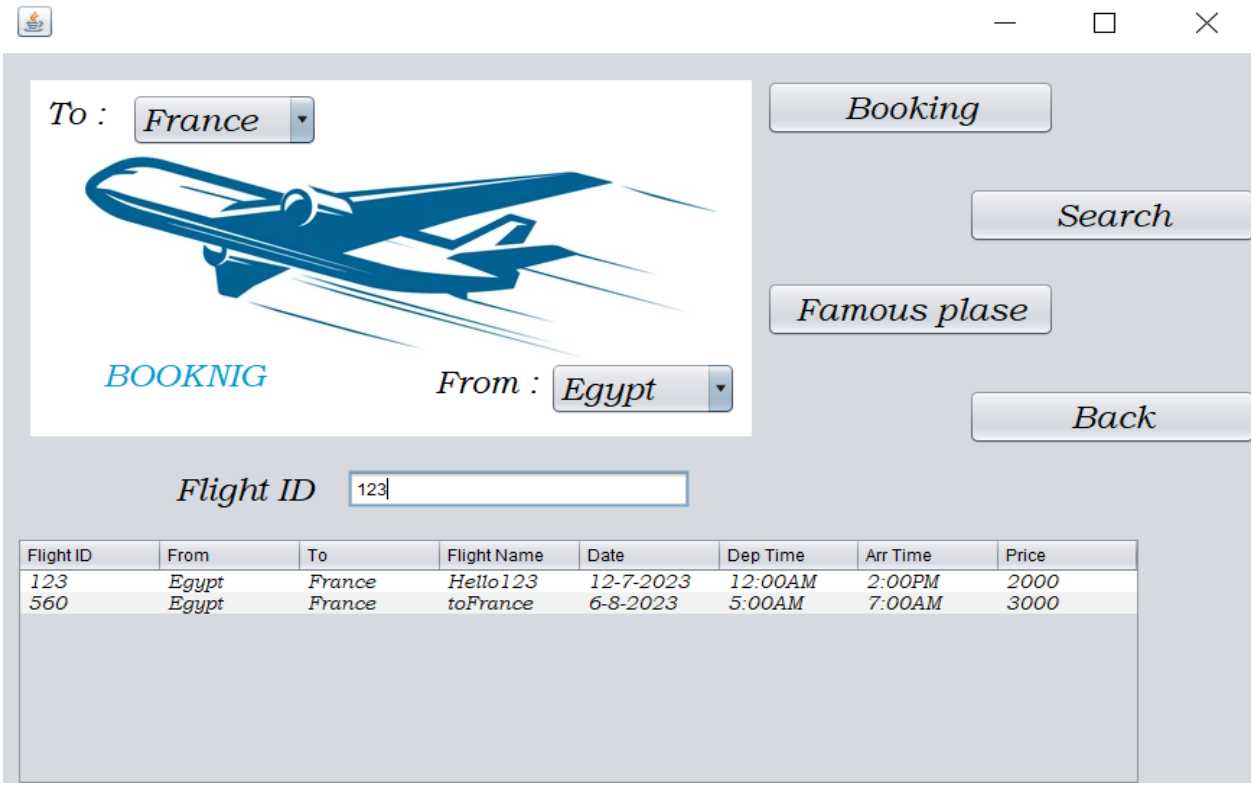
Class Book : here we select from and to county we will travel

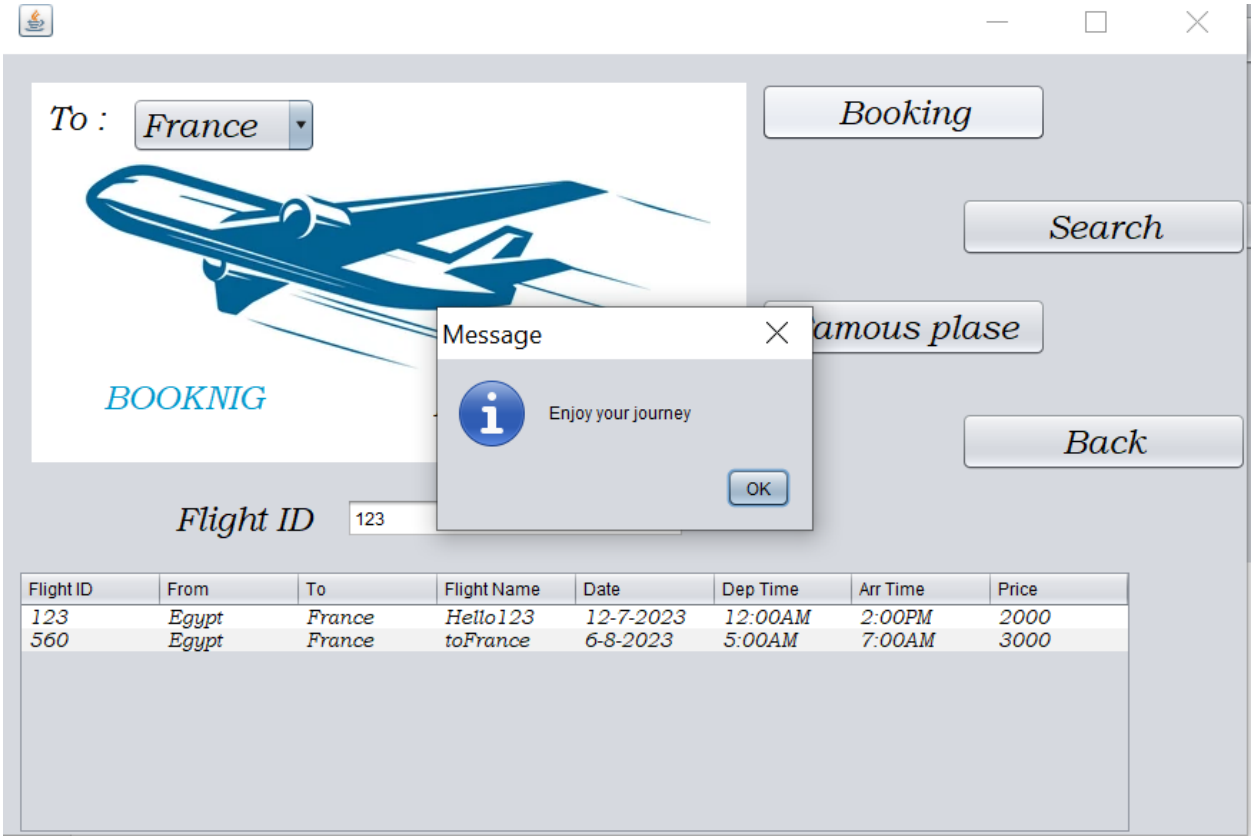
Class Book : clicked Search



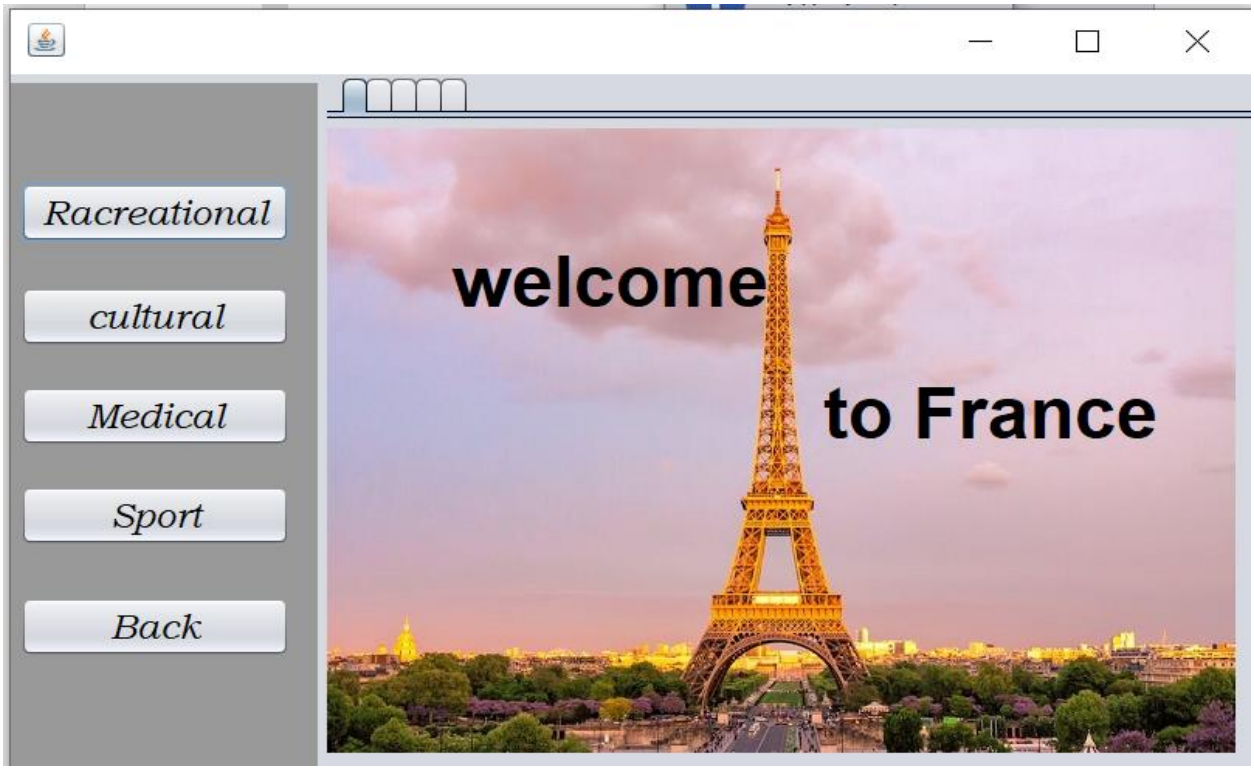
Show Flight available

Class Book : Wrote Flight ID in Text Field after that clicked Search

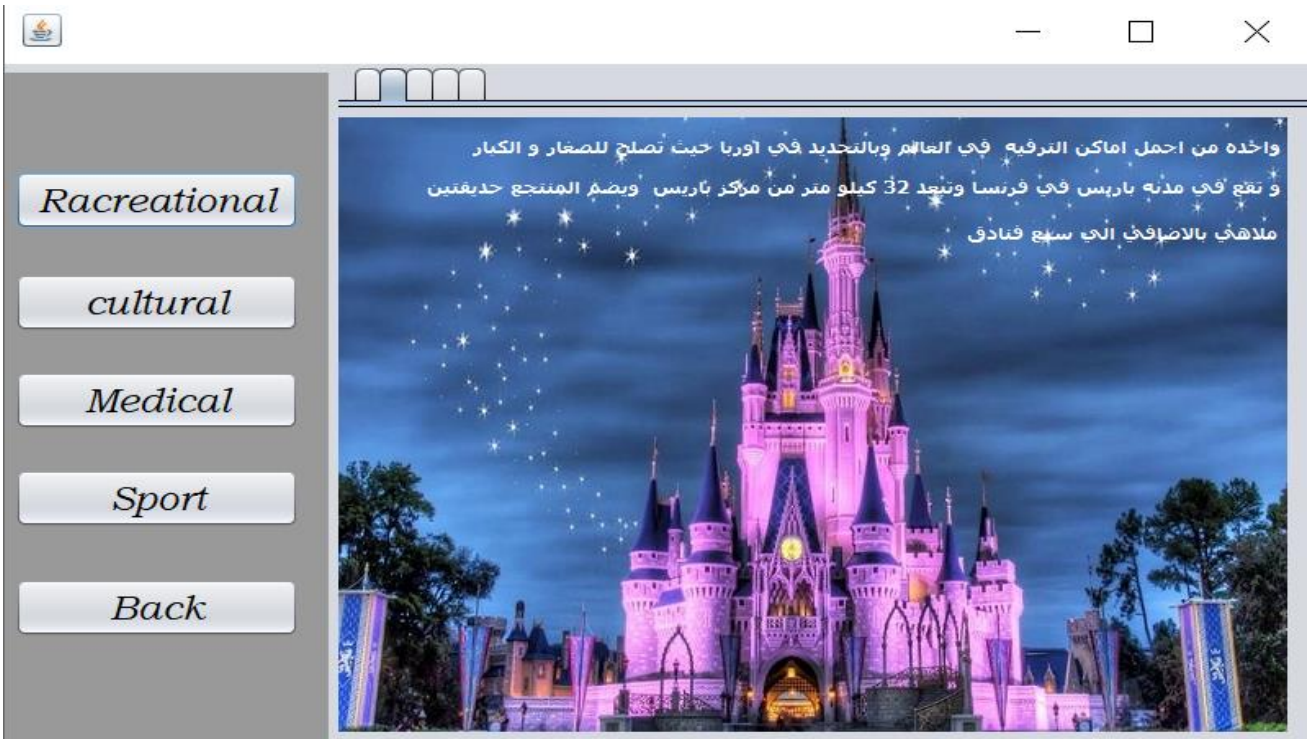




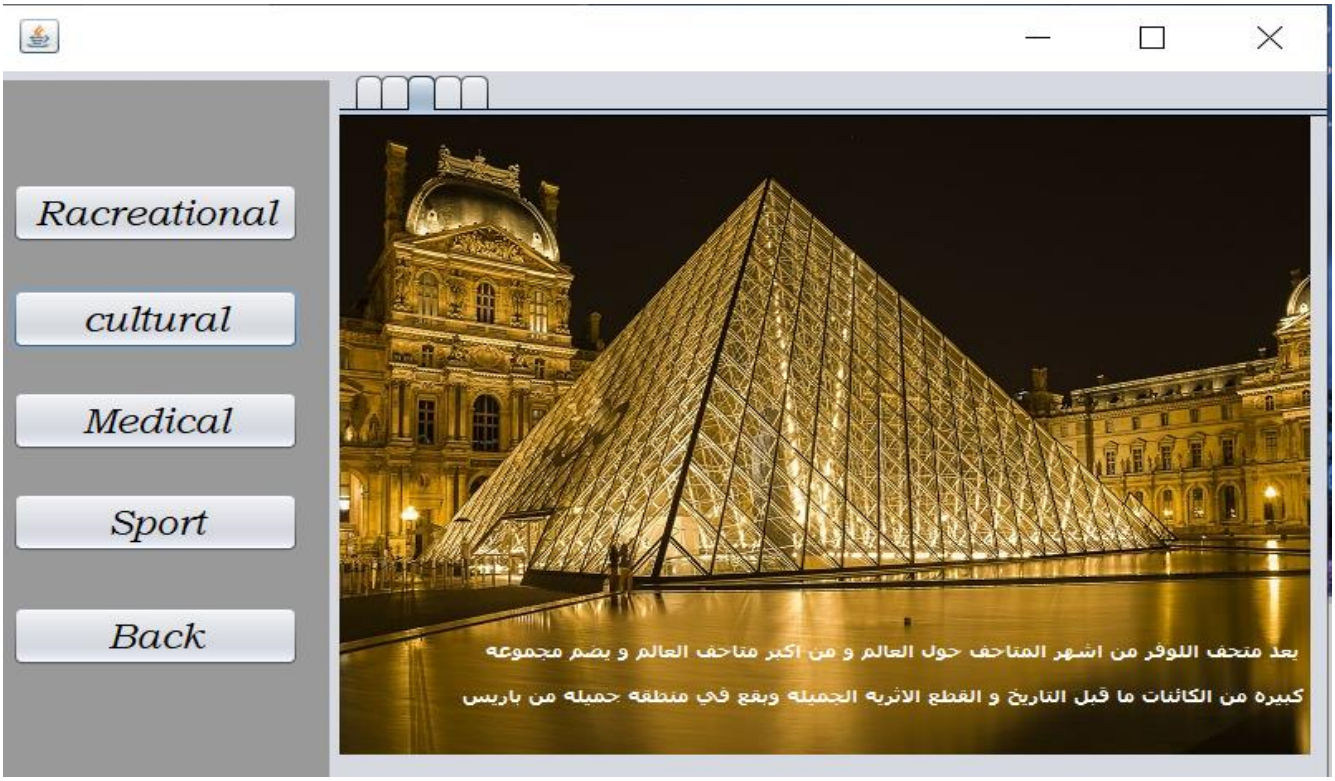
Class Book : clicked Famous place



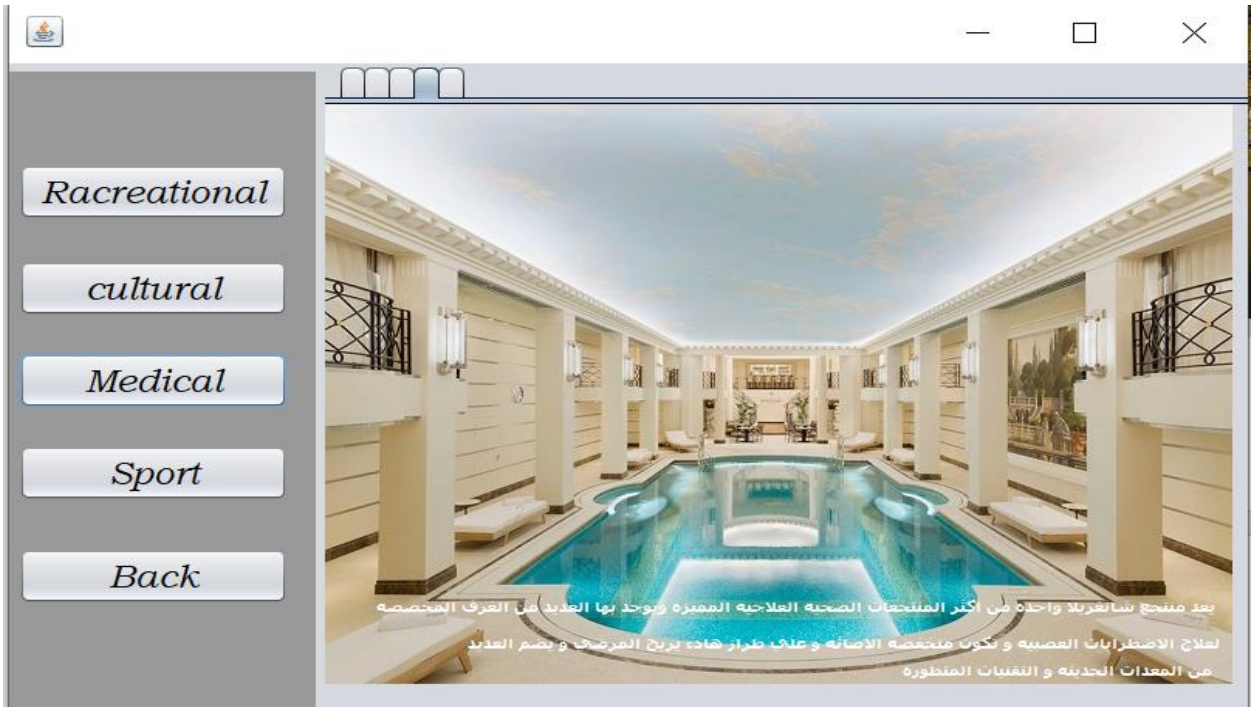
Class Book : clicked Famous place and clicked Racreational



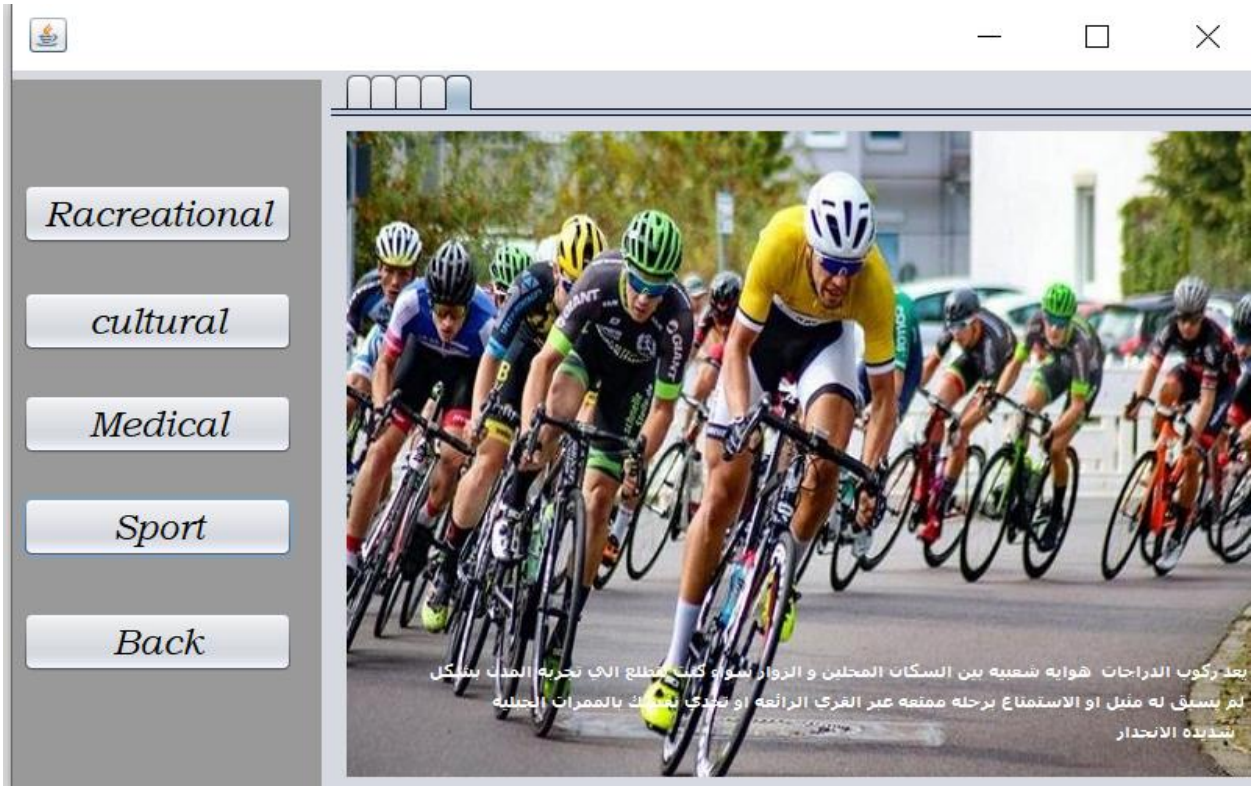
Class Book : clicked Famous place and clicked cultural



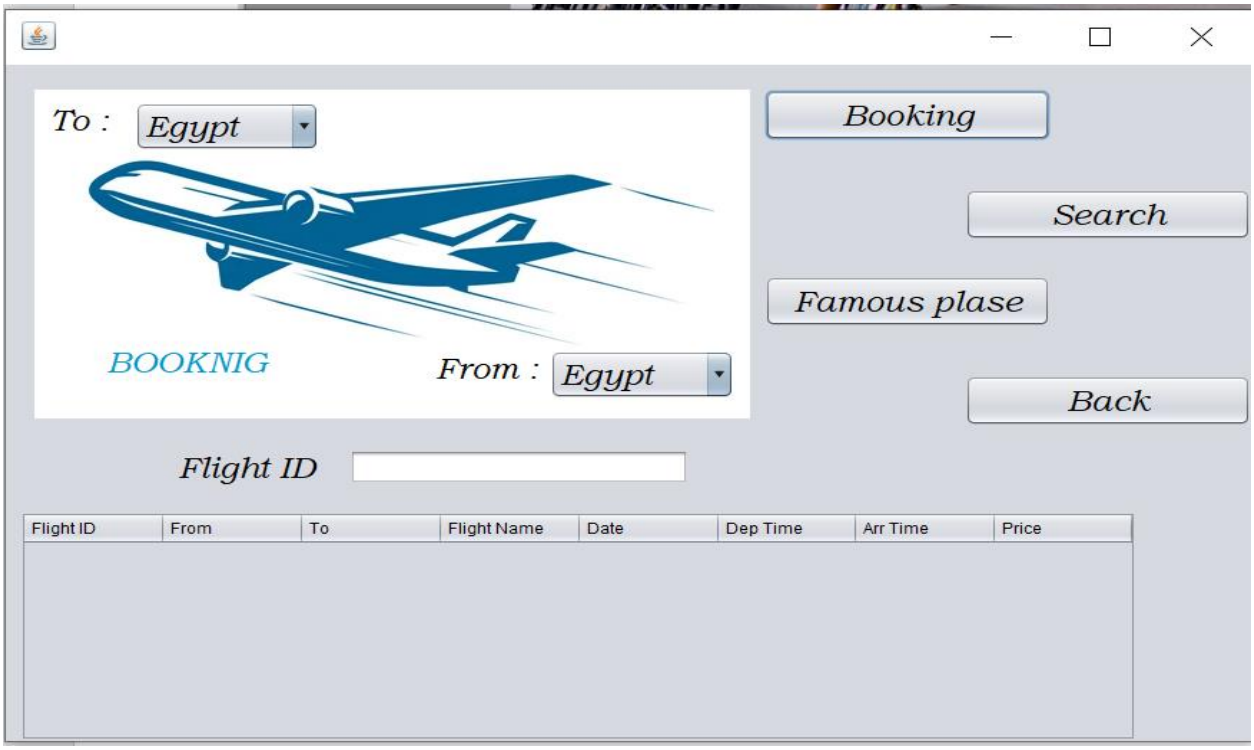
Class Book : clicked Famous place and clicked Medical



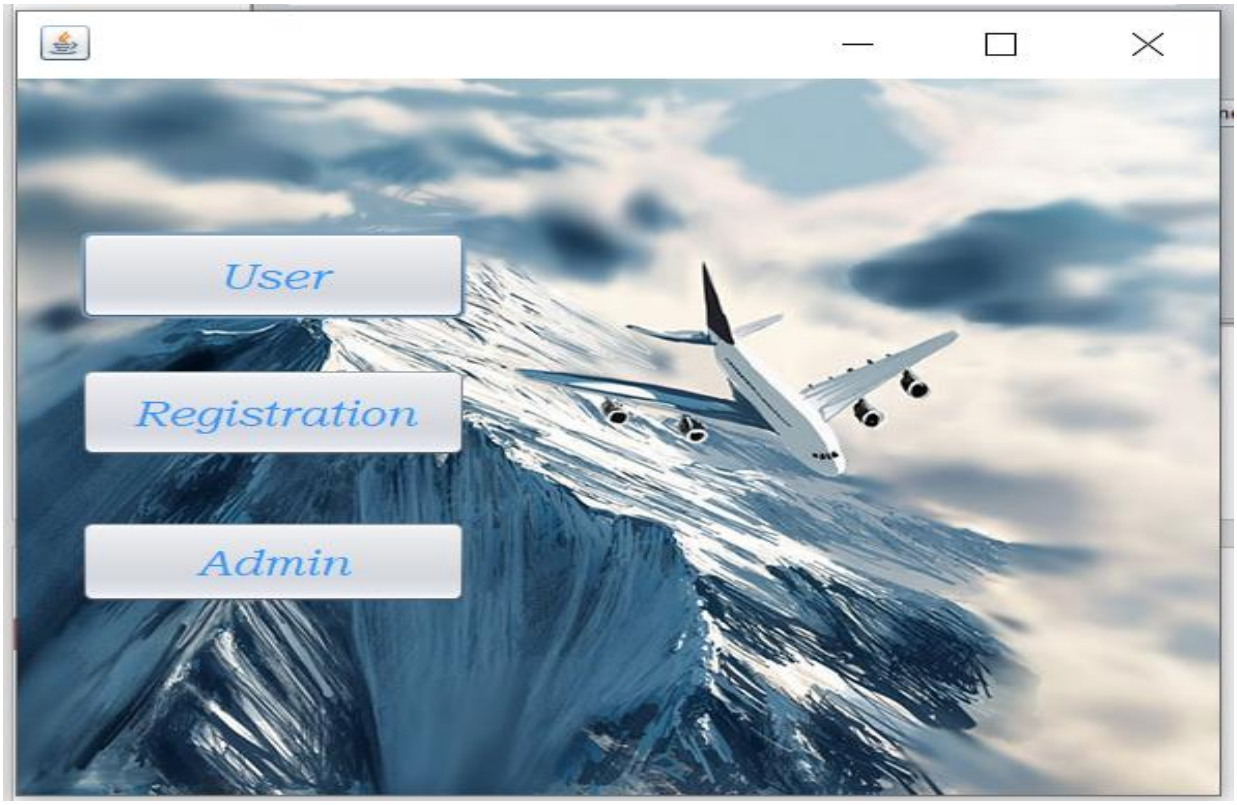
Class Book : clicked Famous place and clicked sport



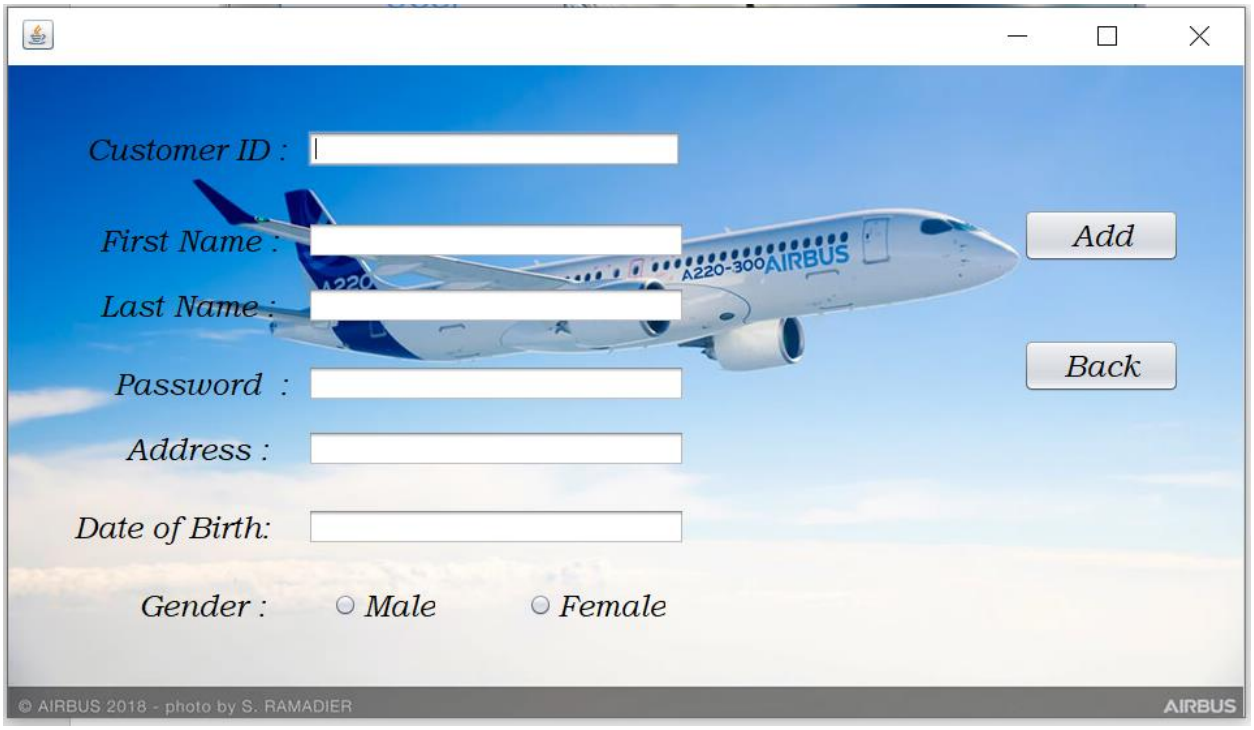
Class Book : clicked Famous place and Back



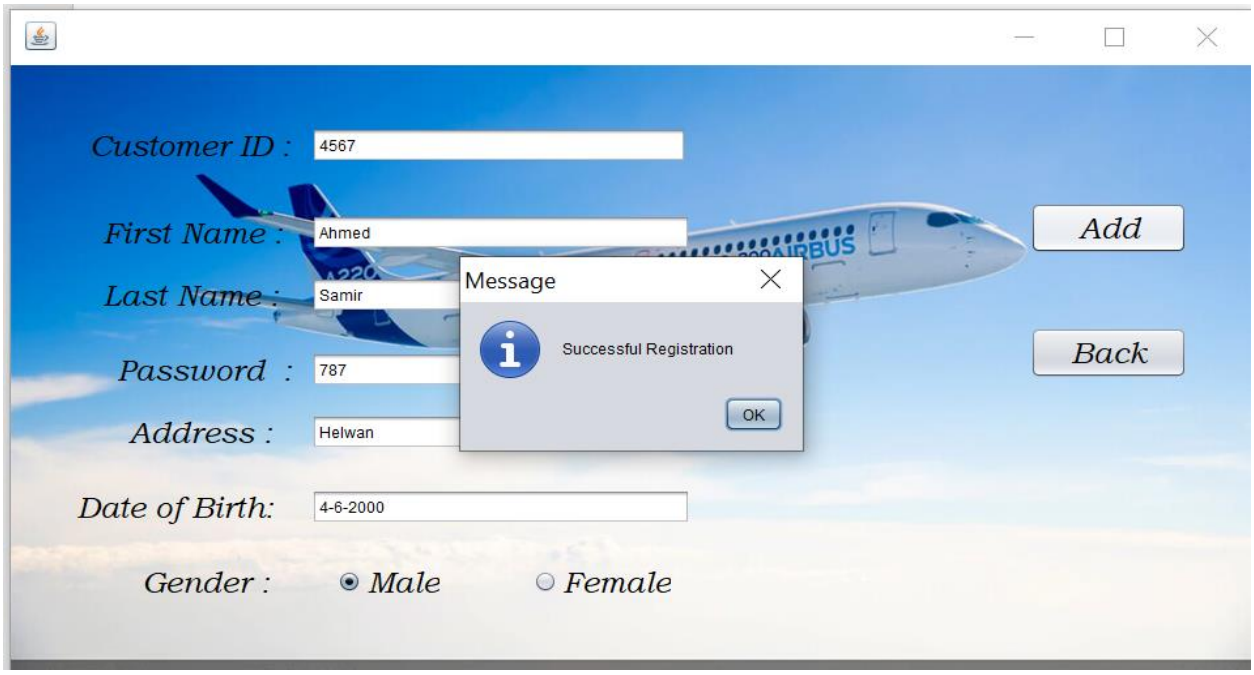
Class Book : clicked Back

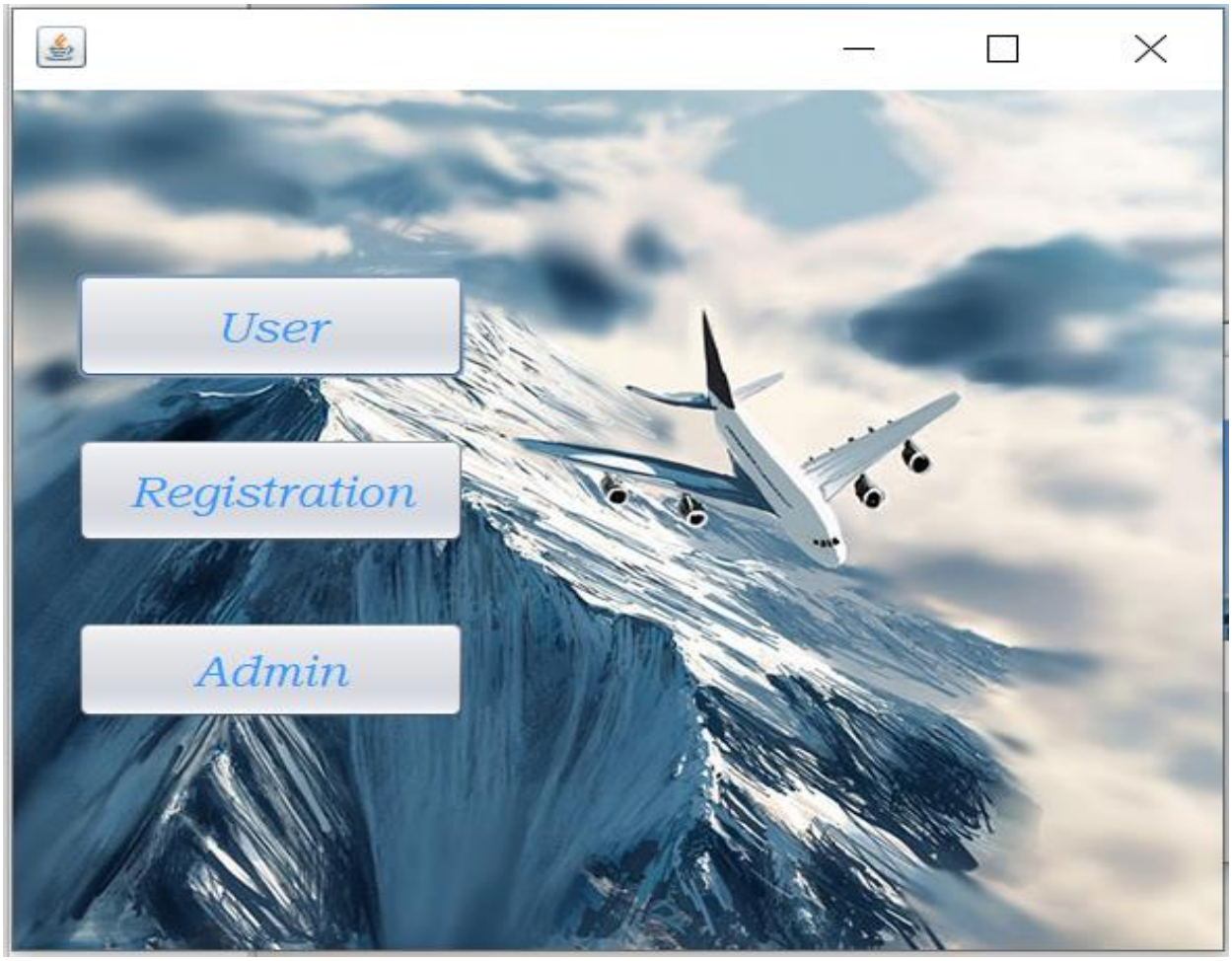


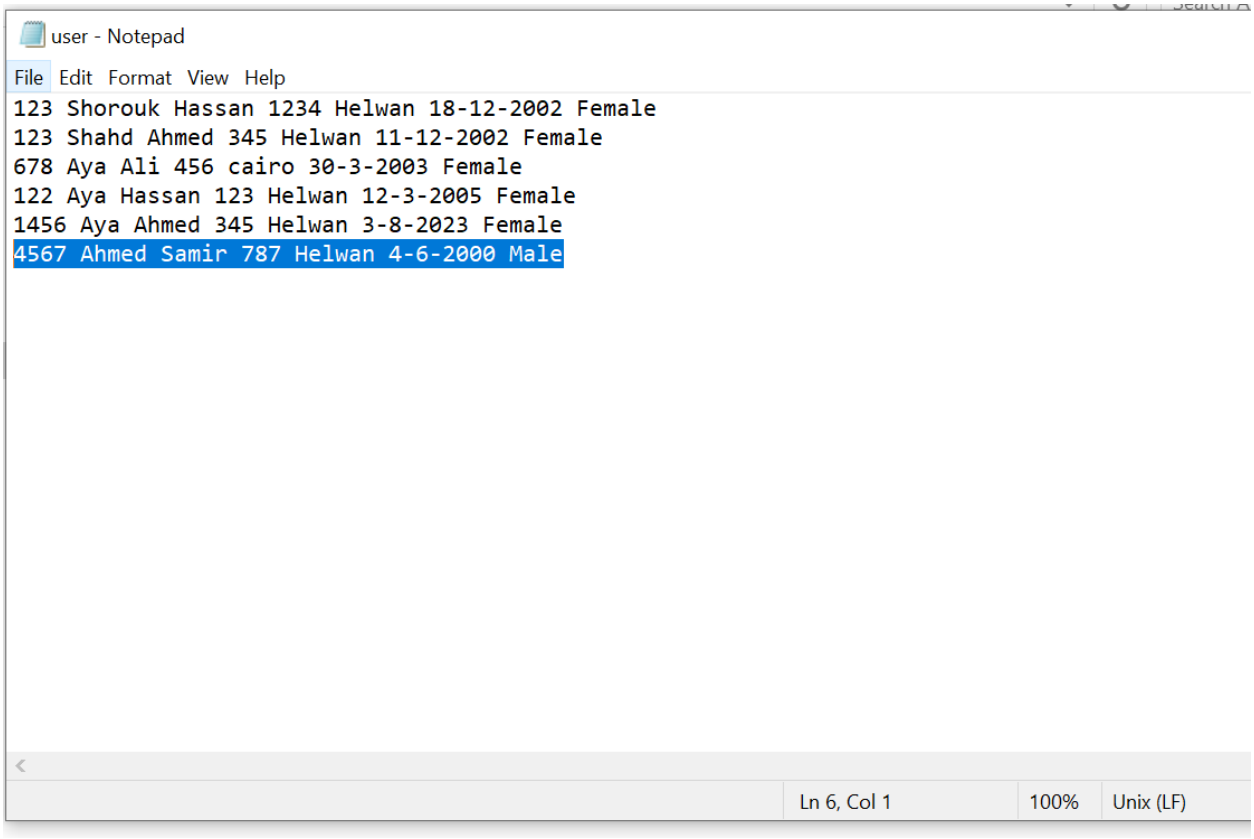
Main Class login : Clicked Registration



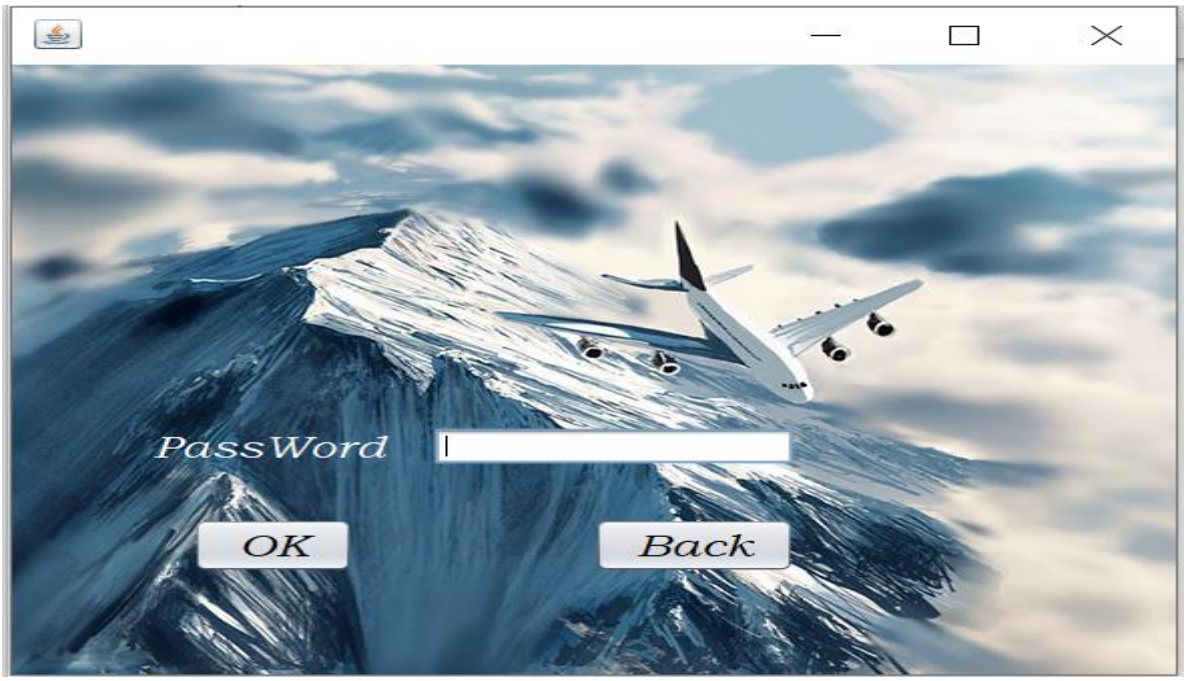
Registration : wrote information and clicked Add


Customer ID :
4567
First Name :
Ahmed
Last Name :
Samir
Password :
787
Address :
Helwan
Date of Birth:
4-6-2000
Gender :
Male
Female
Add
Back
Message
Successful Registration
OK

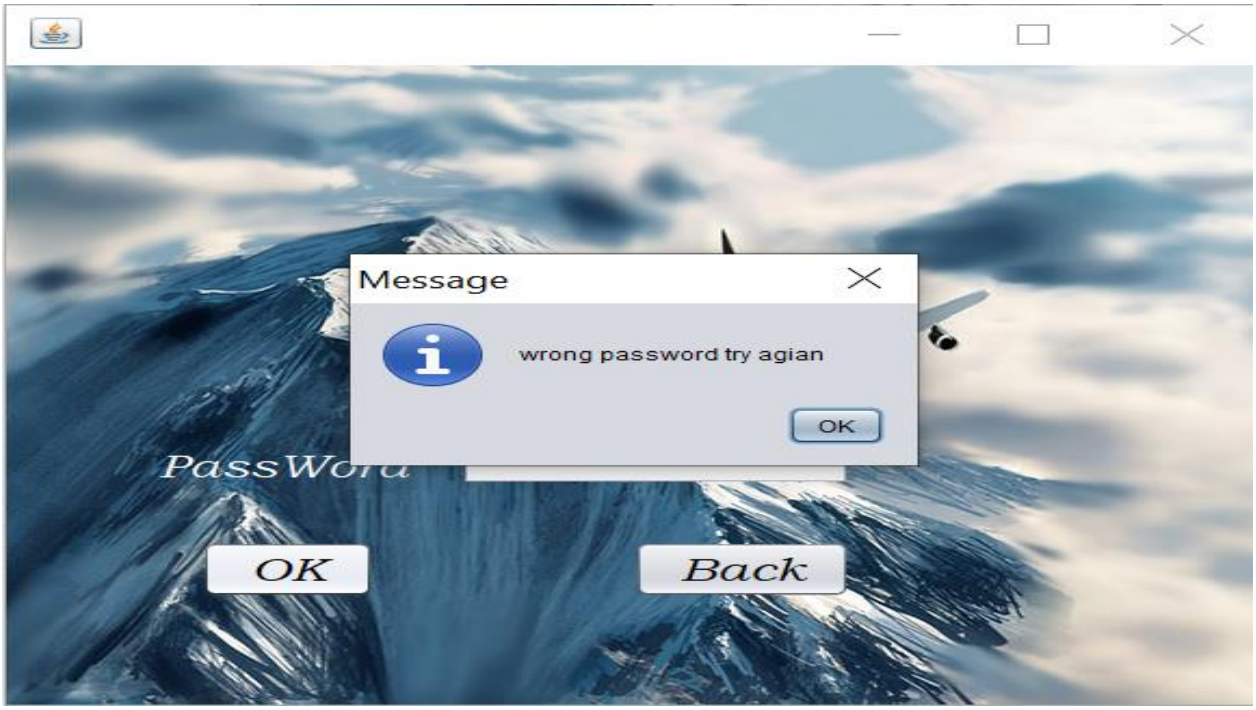

User
Registration
Admin



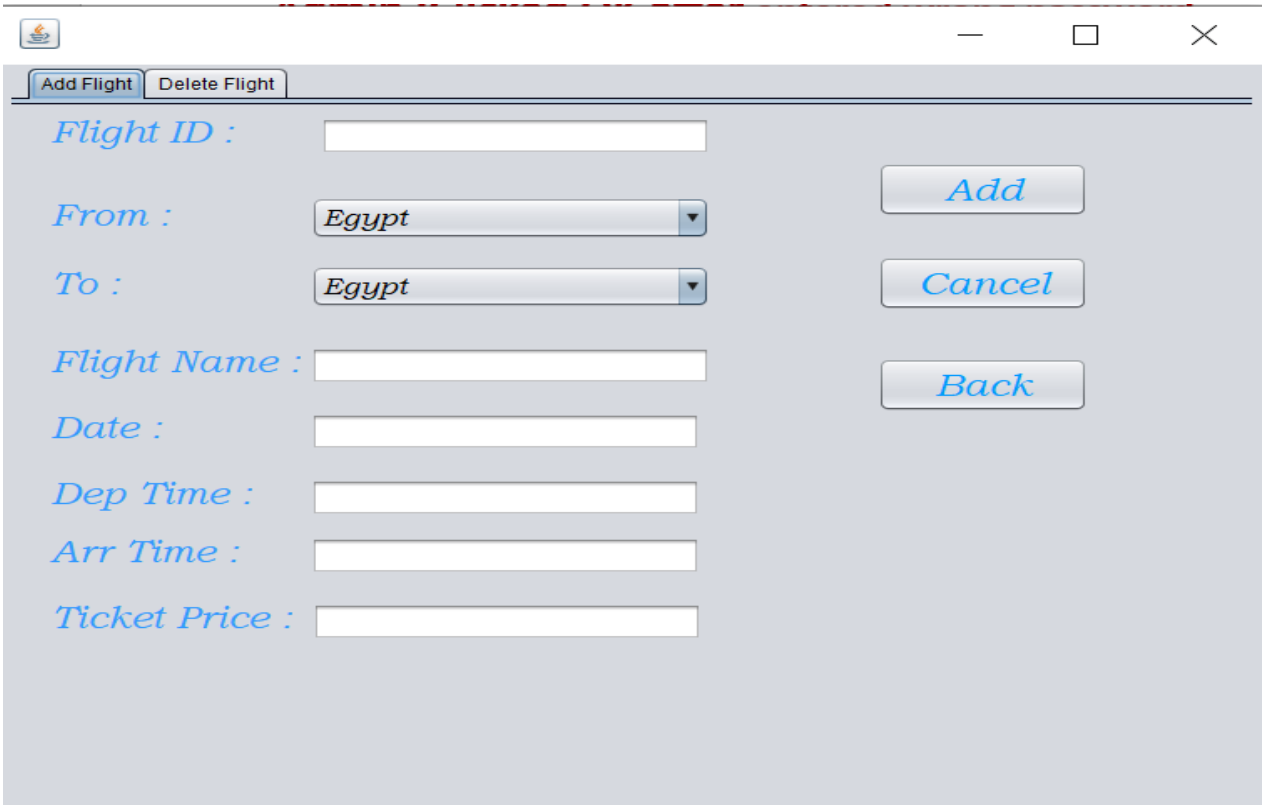
Main Class login : Clicked Admin



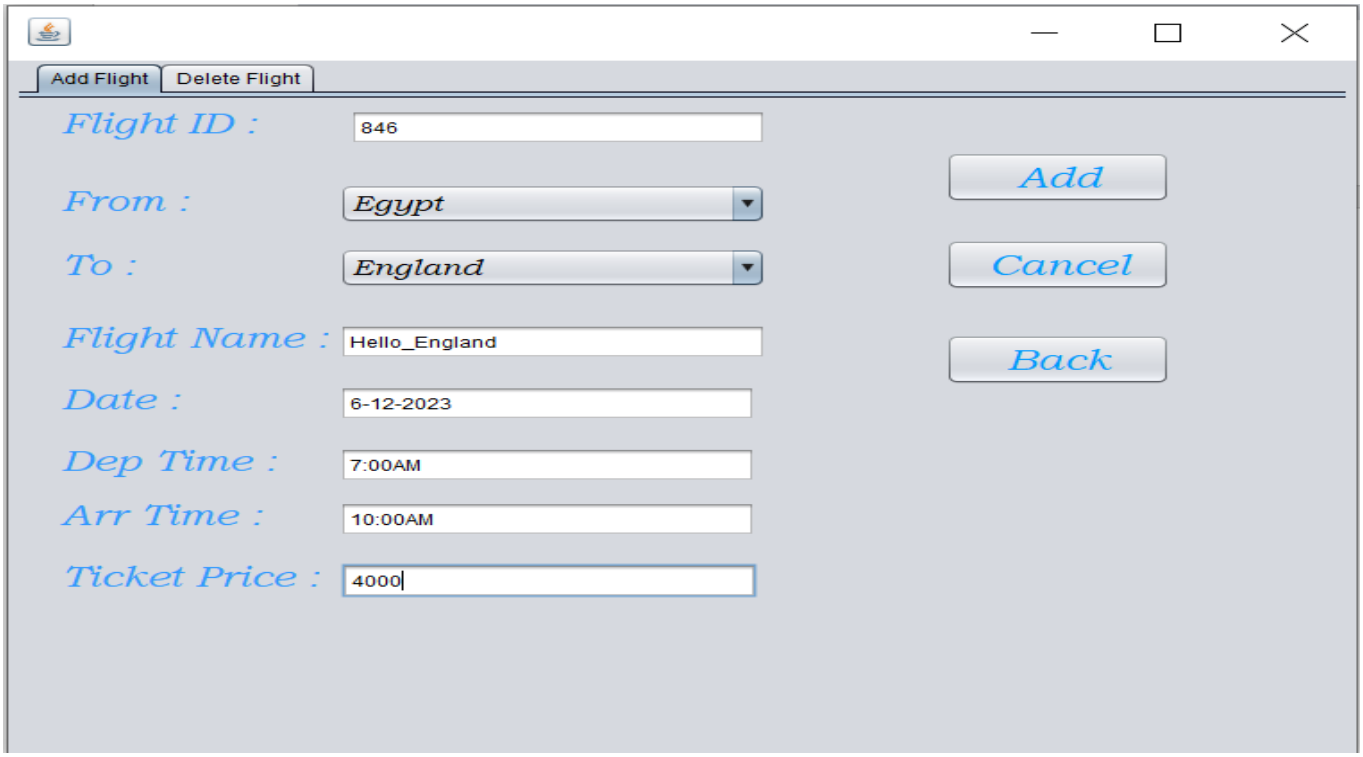
Admin :Clicked OK after entered wrong password



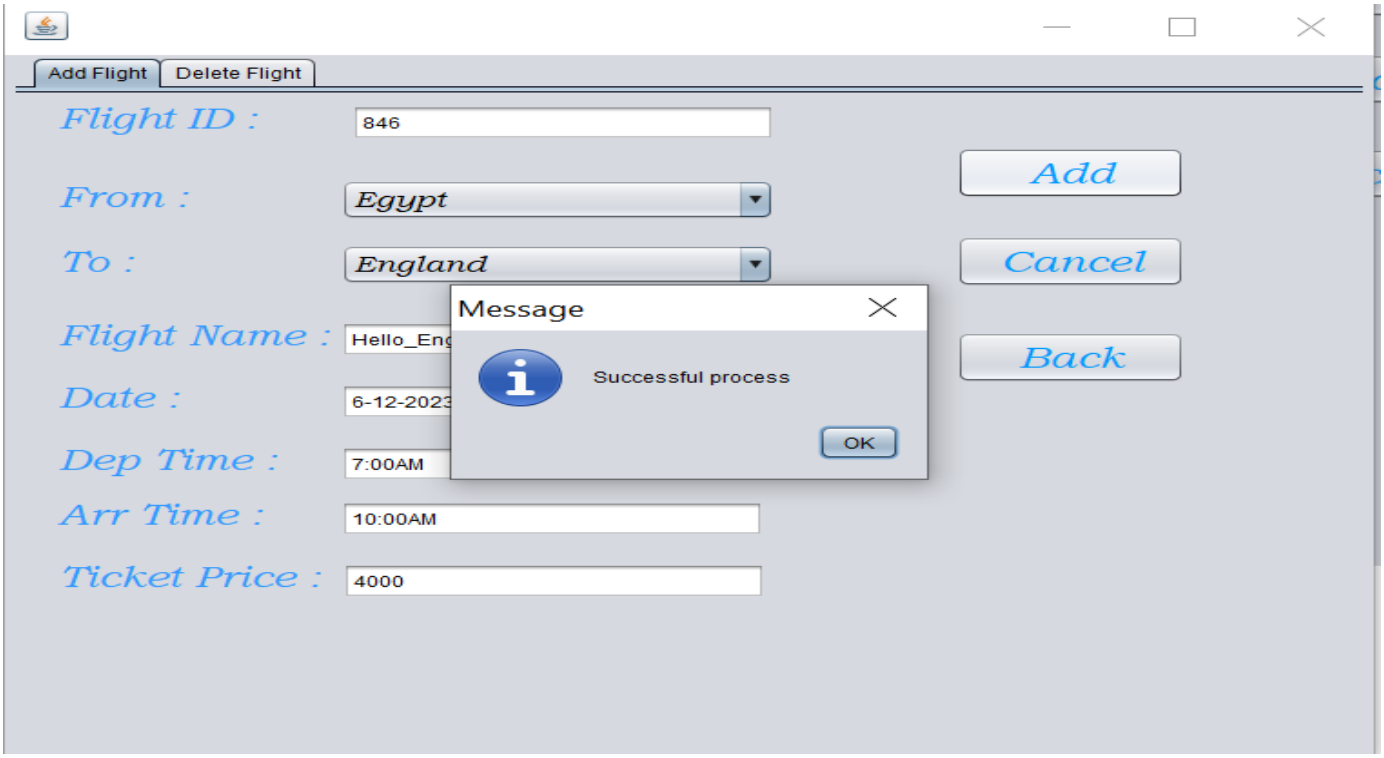
Admin :Clicked OK after entered right password



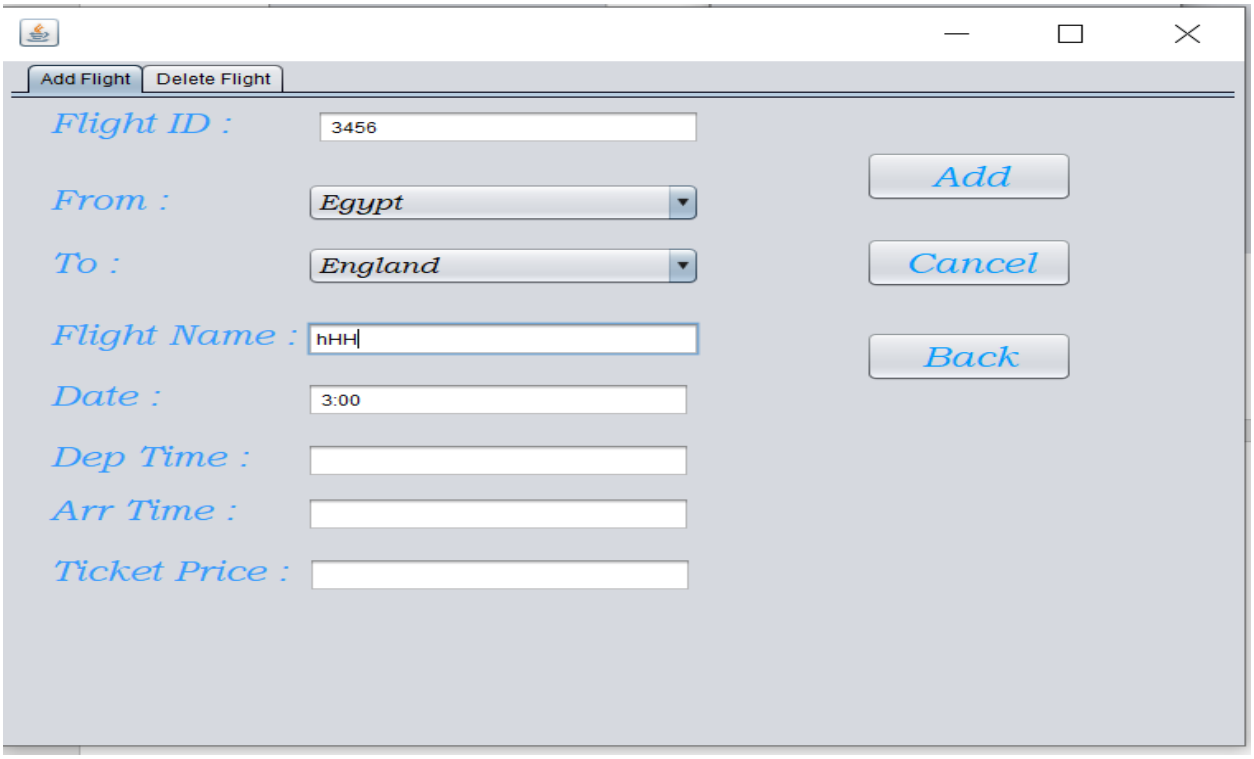
Admin :Add Flight



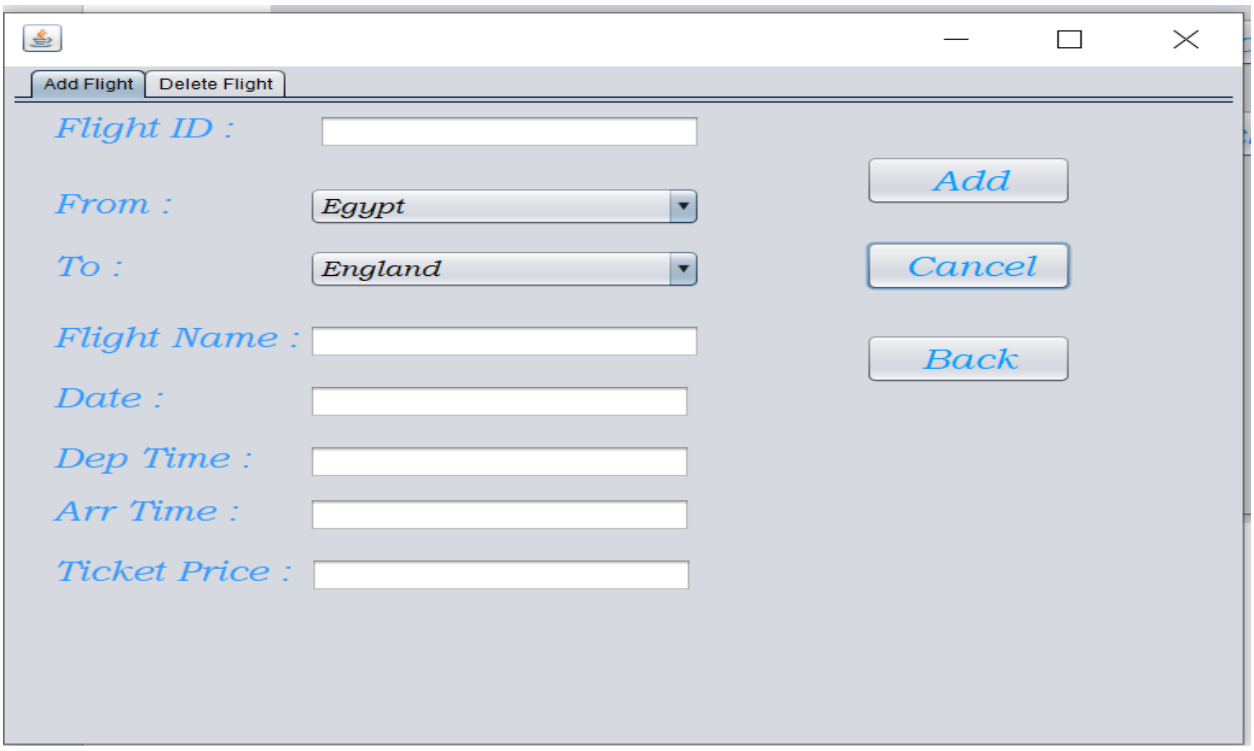
Admin : Add Flight : Clicked Add



Admin : Add Flight : Clicked Cancel

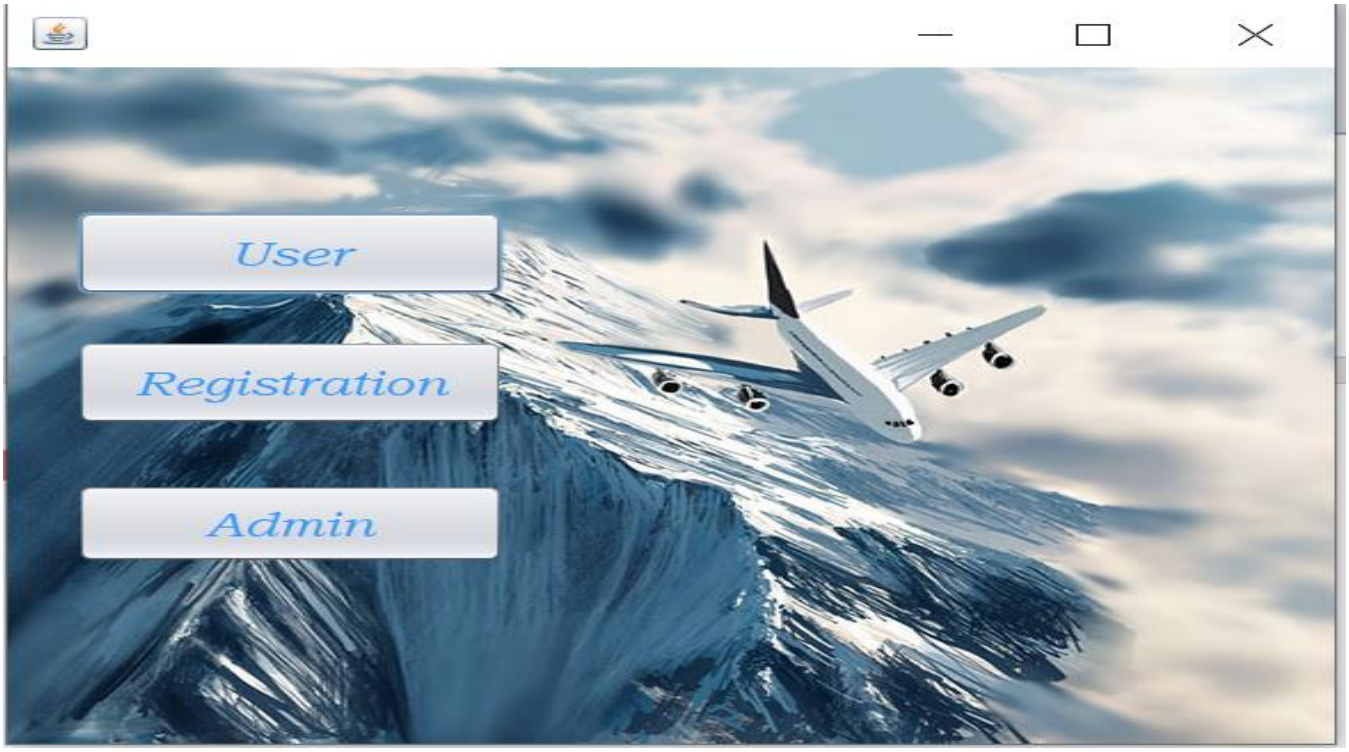


Before Clicked Cancel

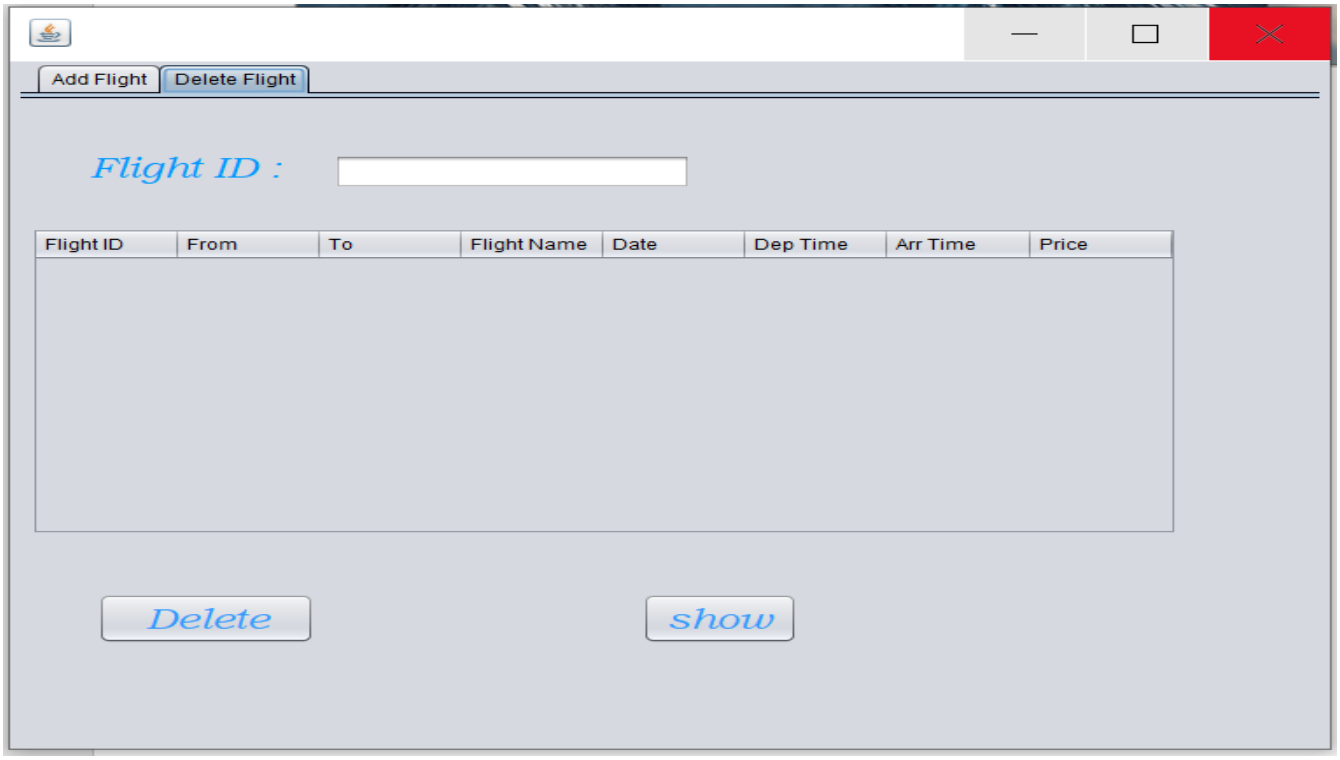


After Clicked Cancel

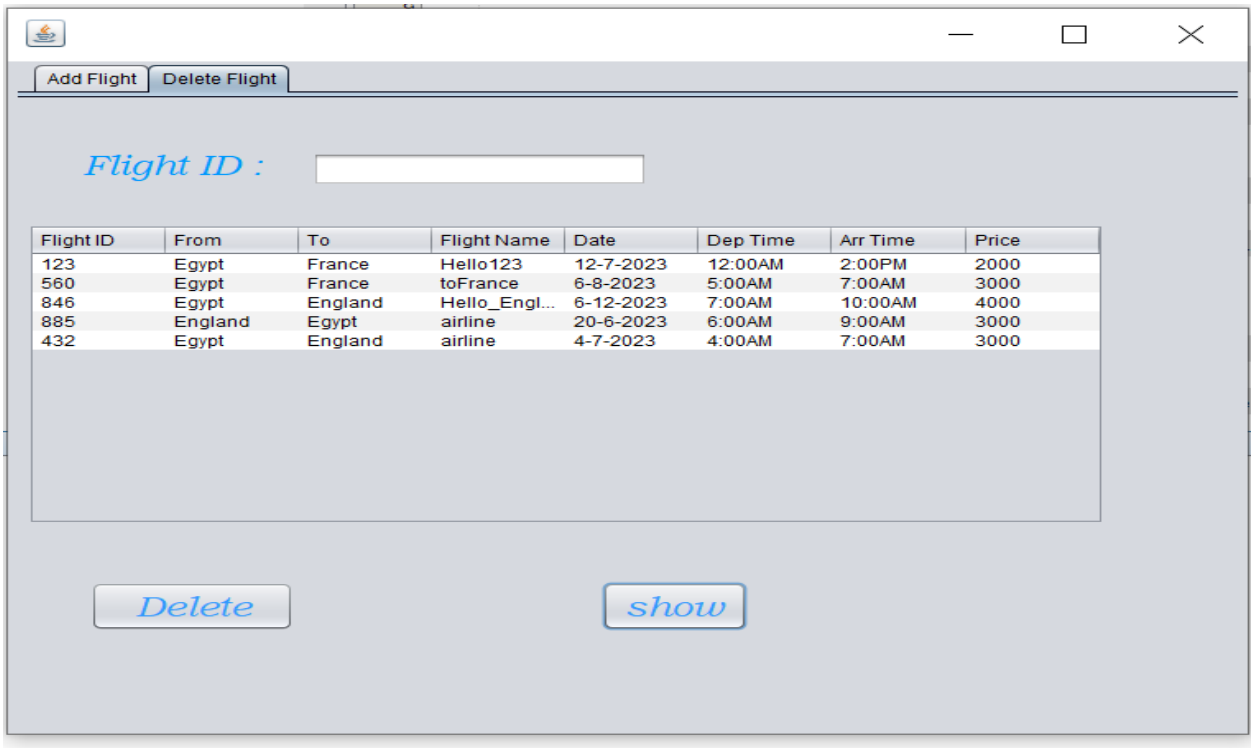
Admin : Add Flight : Clicked Back



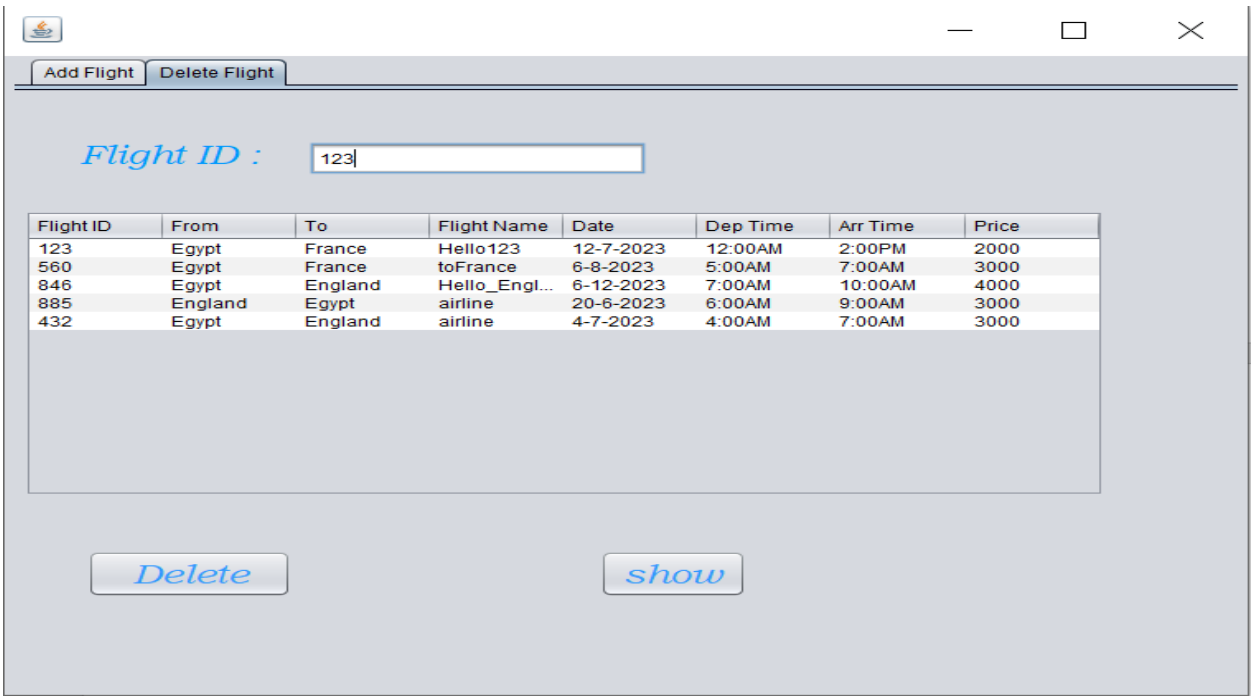
Admin : Delete Flight

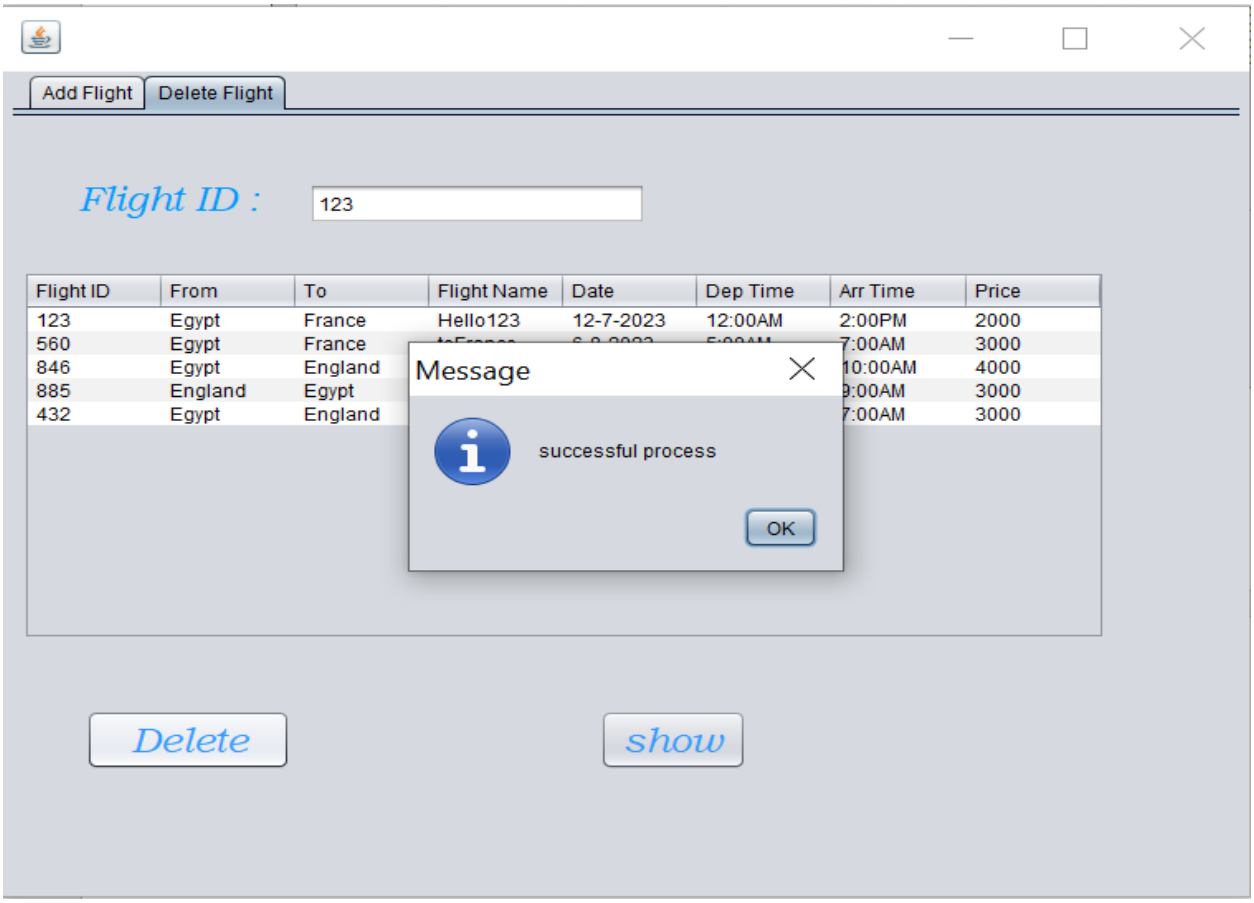


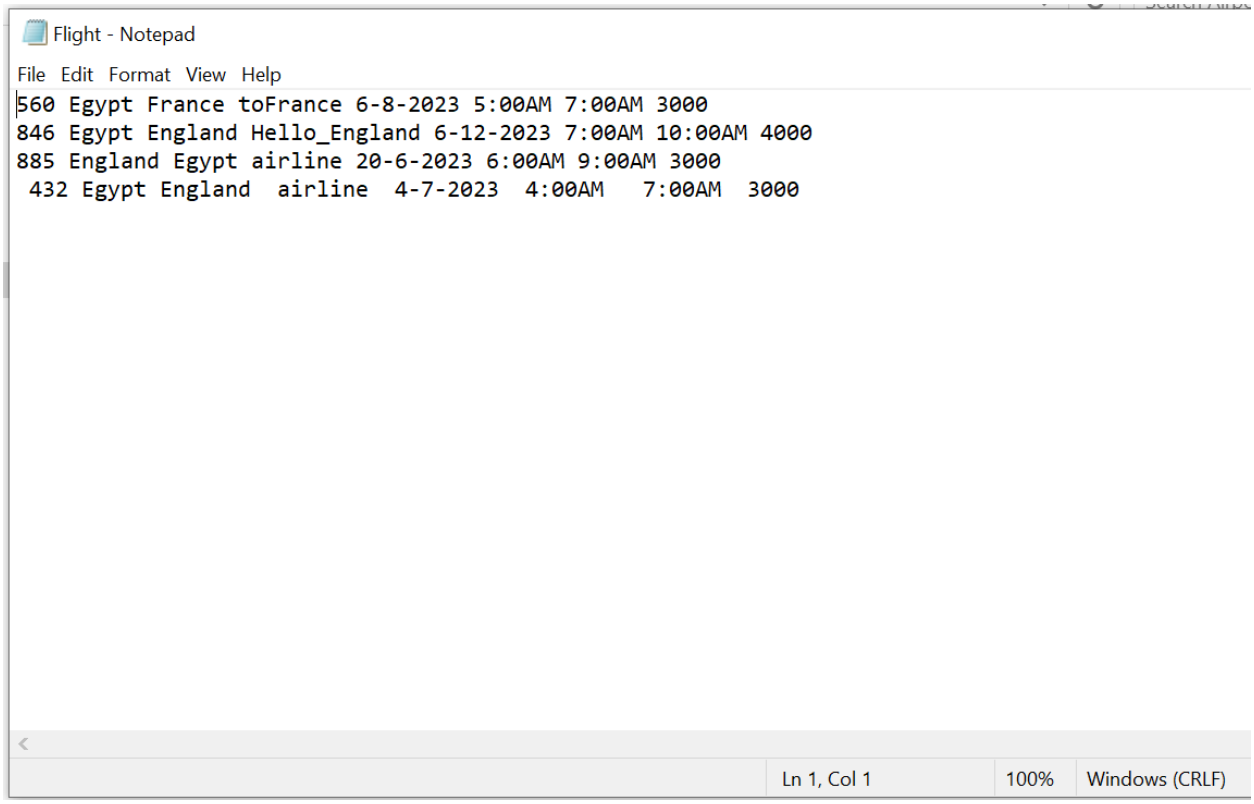
Admin : Delete Flight : Clicked Show



Admin : Delete Flight : Clicked Delete after enter the right Flight ID




Add Flight
Delete Flight
Flight ID :
123
Flight ID | From | To | Flight Name | Date | Dep Time | Arr Time | Price
123 | Egypt | France | Hello123 | 12-7-2023 | 12:00AM | 2:00PM | 2000
560 | Egypt | France | | | | 7:00AM | 3000
846 | Egypt | England | | | | 10:00AM | 4000
885 | England | Egypt | | | | 9:00AM | 3000
432 | Egypt | England | | | | 7:00AM | 3000
Message
successful process
OK
Delete
show


Flight - Notepad
File Edit Format View Help
560 Egypt France toFrance 6-8-2023 5:00AM 7:00AM 3000
846 Egypt England Hello_England 6-12-2023 7:00AM 10:00AM 4000
885 England Egypt airline 20-6-2023 6:00AM 9:00AM 3000
432 Egypt England airline 4-7-2023 4:00AM 7:00AM 3000
Ln 1, Col 1
100%
Windows (CRLF)