



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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 - 1.1 confirmation that he is our client
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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

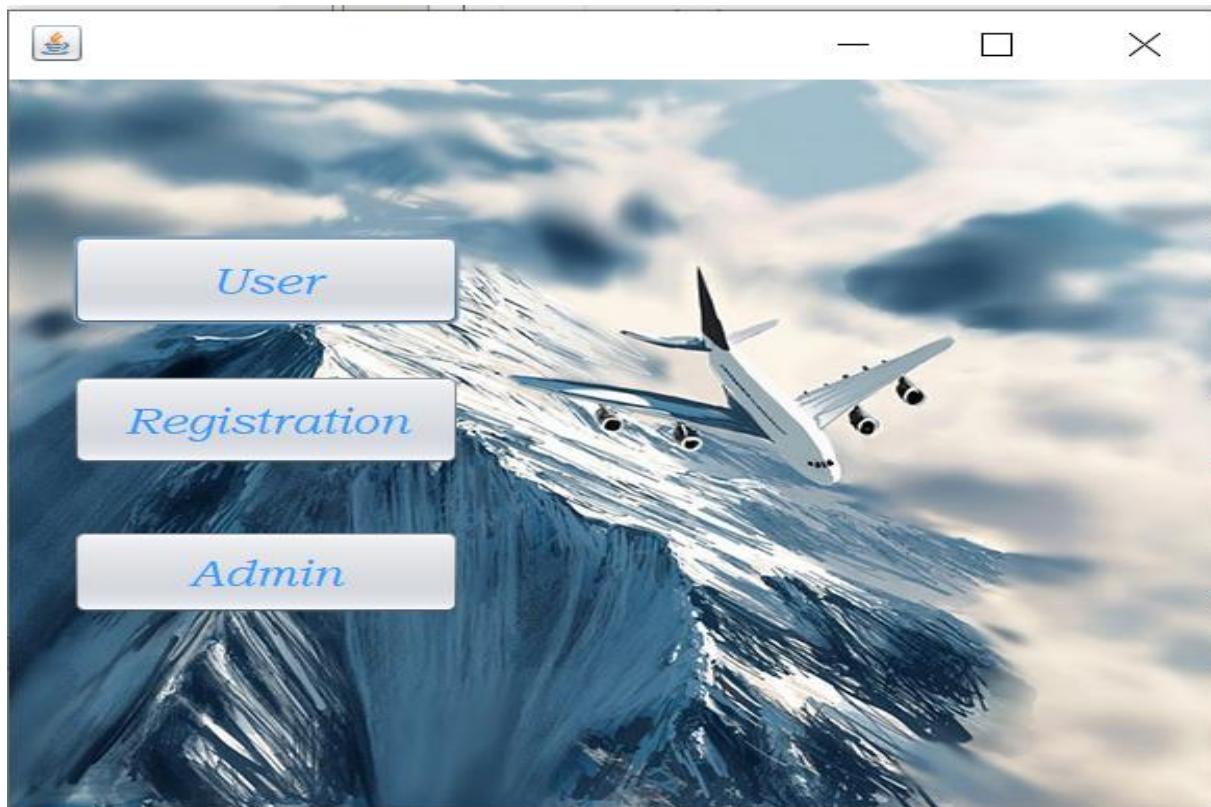
As admin you can add flights in "Flight" file you have to add flight name, flight date, destination and some other information about the flight.

2-Delete Flight

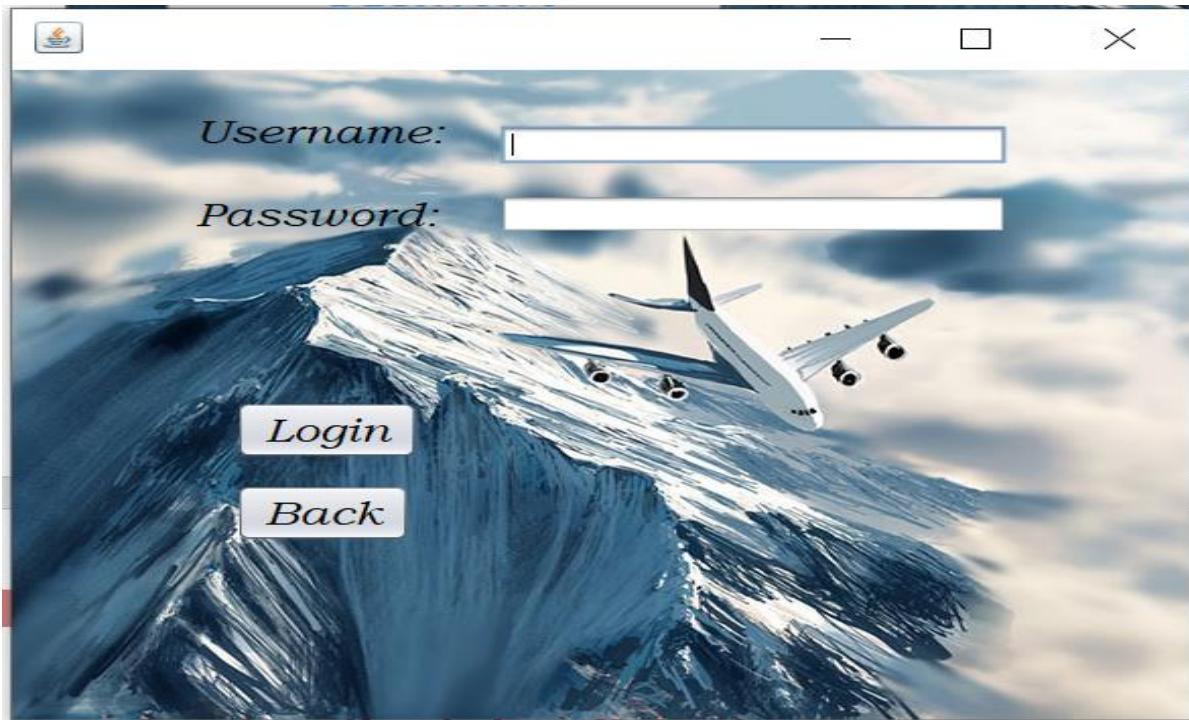
If you wish to cancel a flight then you will choose this option and we will delete all of its data from "Flight" file.

- snapshots of the project while running

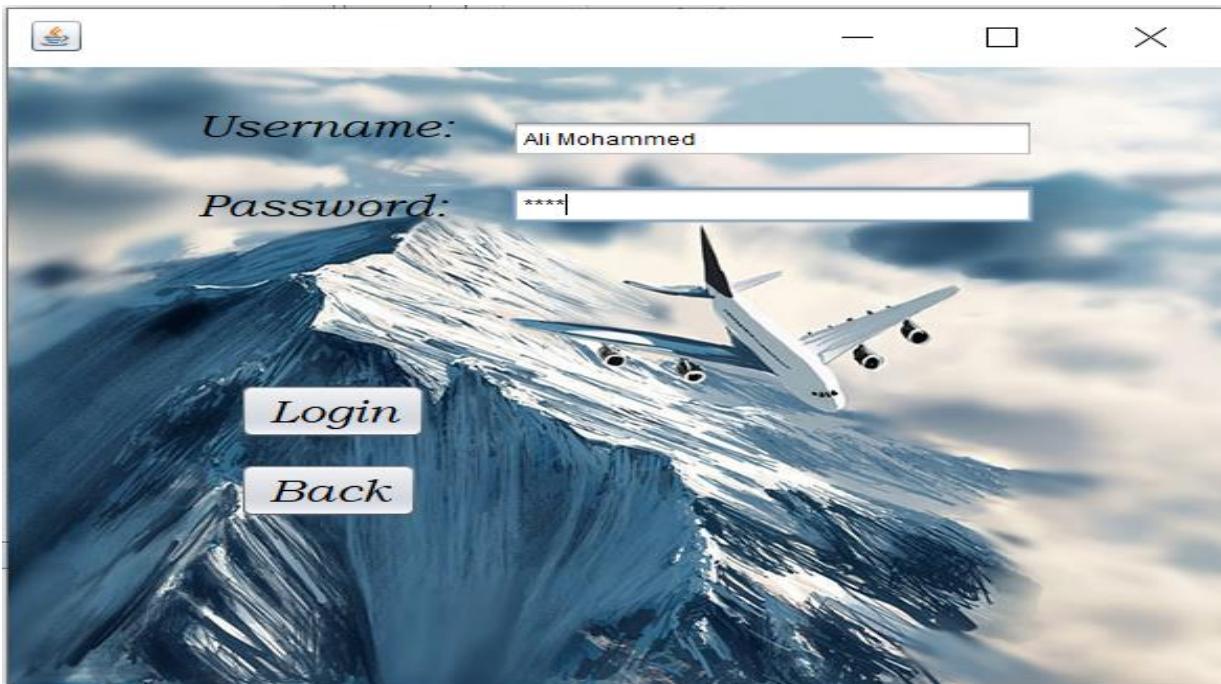
Main Class login: here we have 3 Button(User,Registration,Admin)



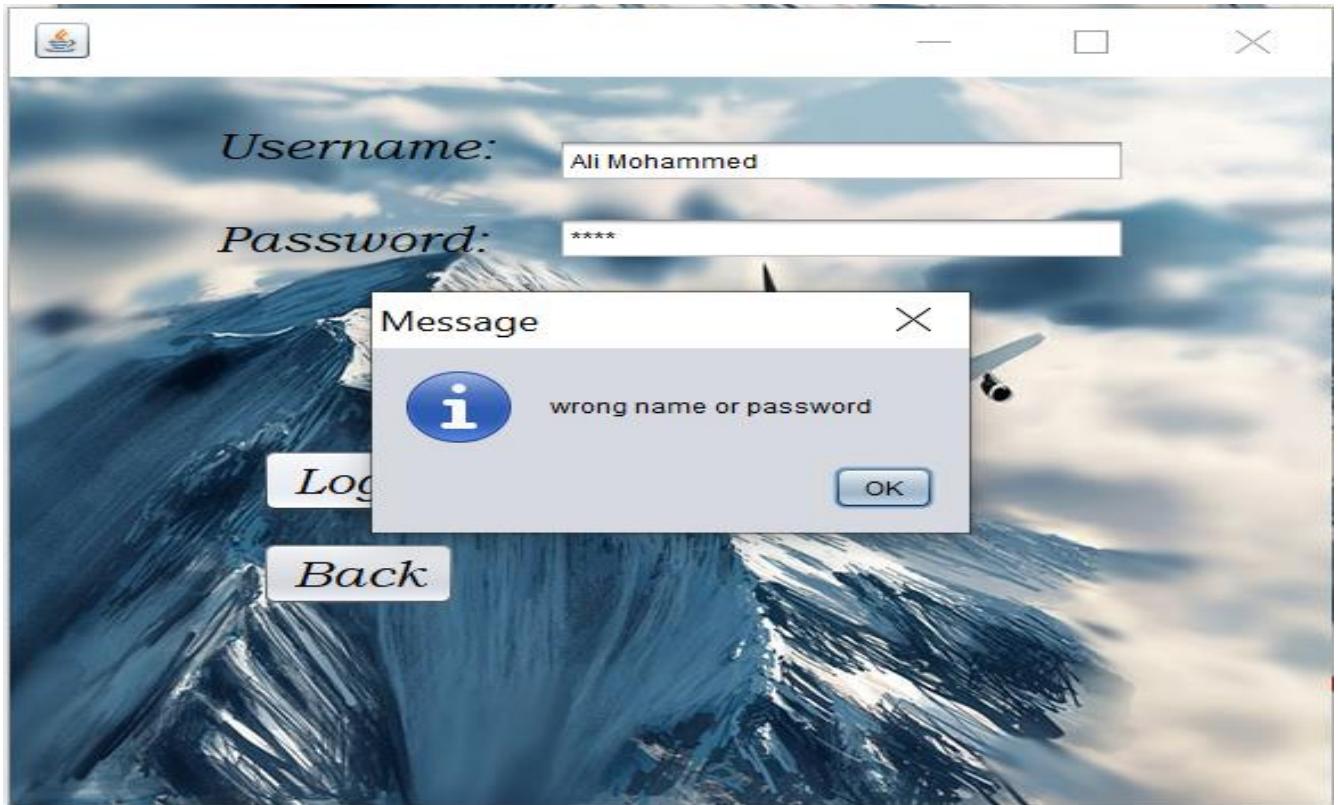
Main Class login : Clicked User



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

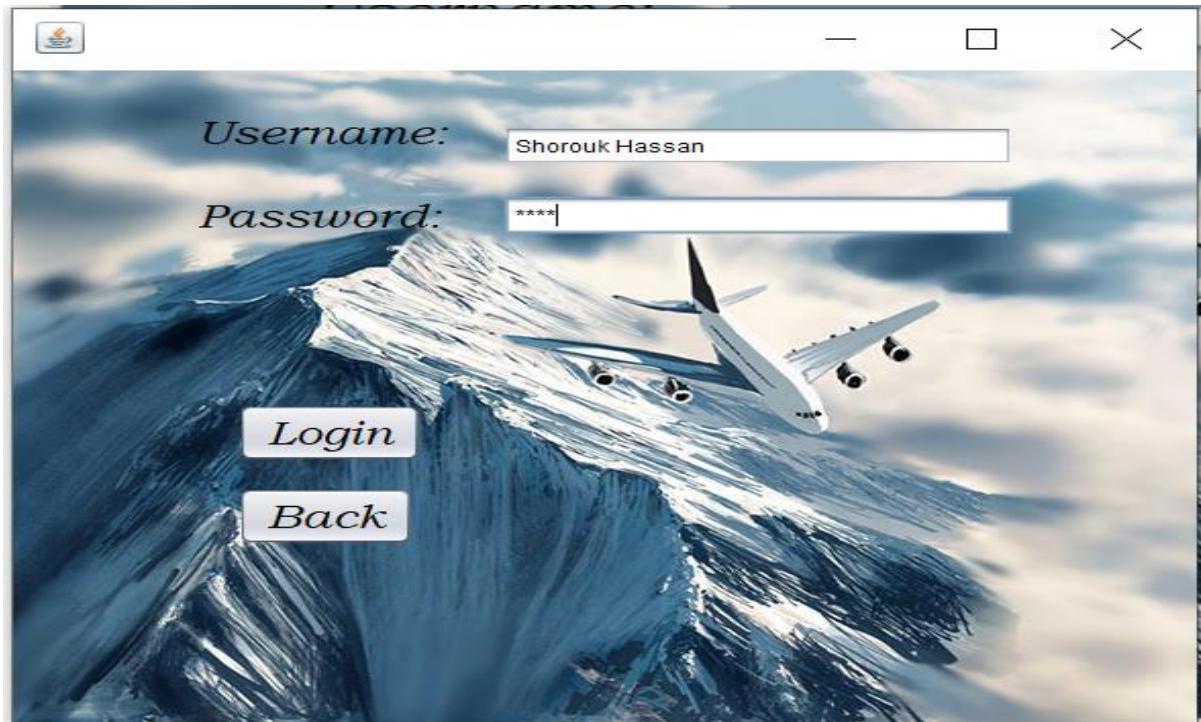


entered wrong name or wrong password before clicked login

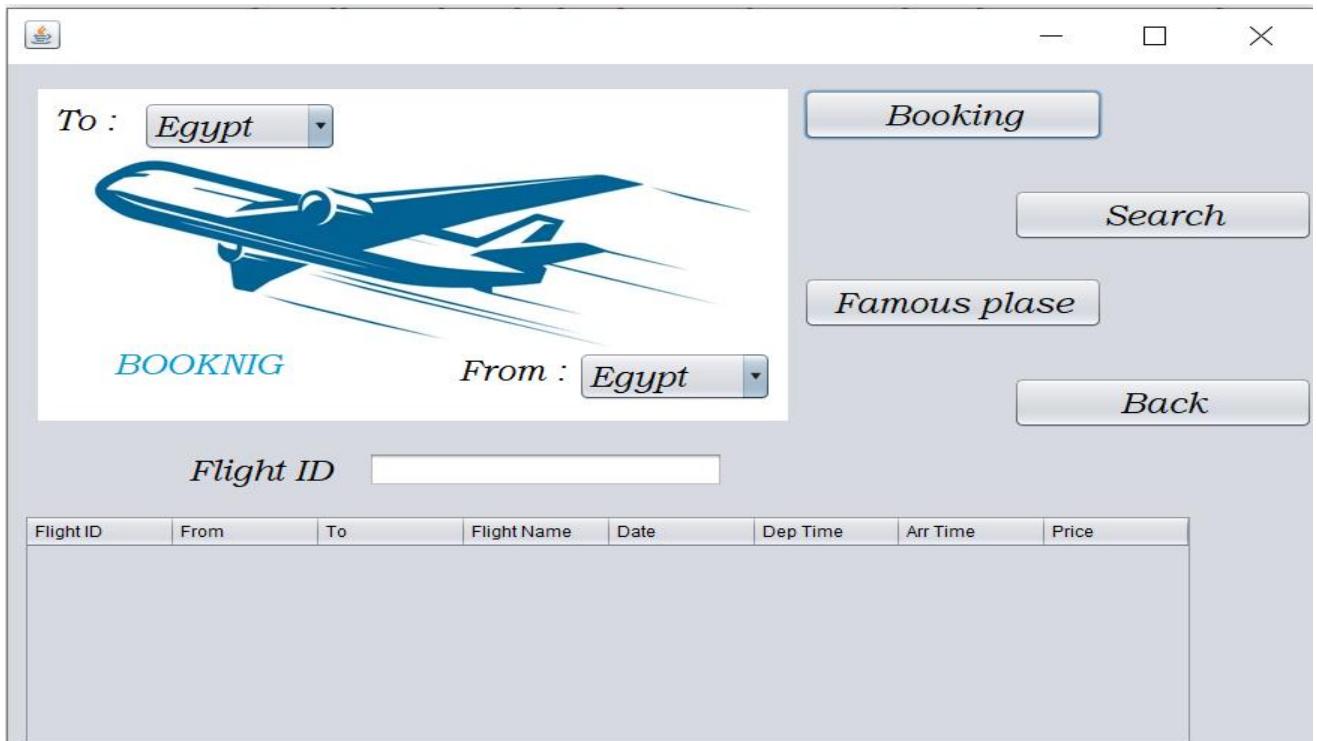


entered wrong name or wrong password after clicked login

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



entered right name and password before clicked login

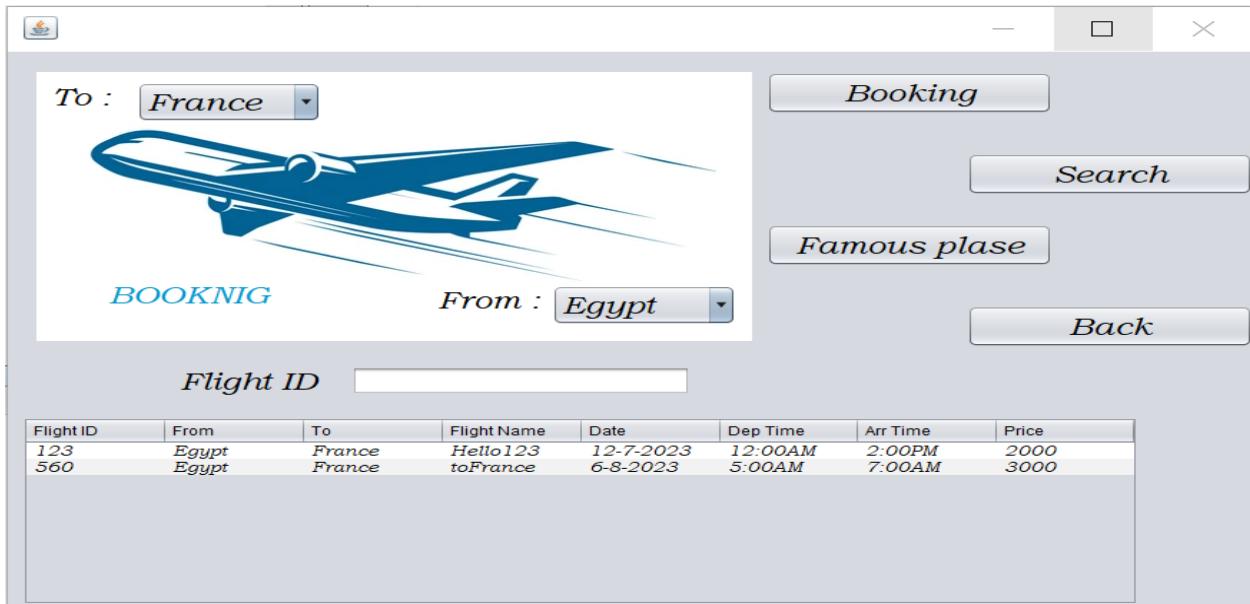


entered right name and password after clicked login

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

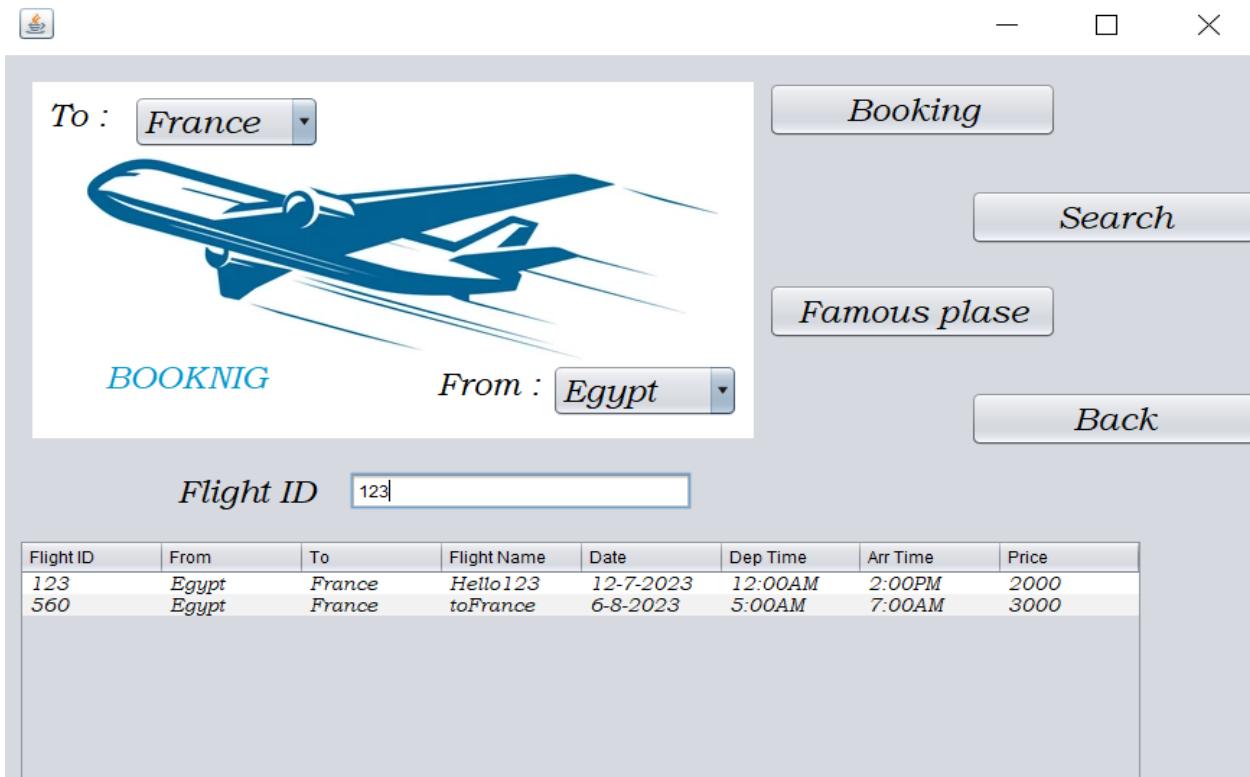


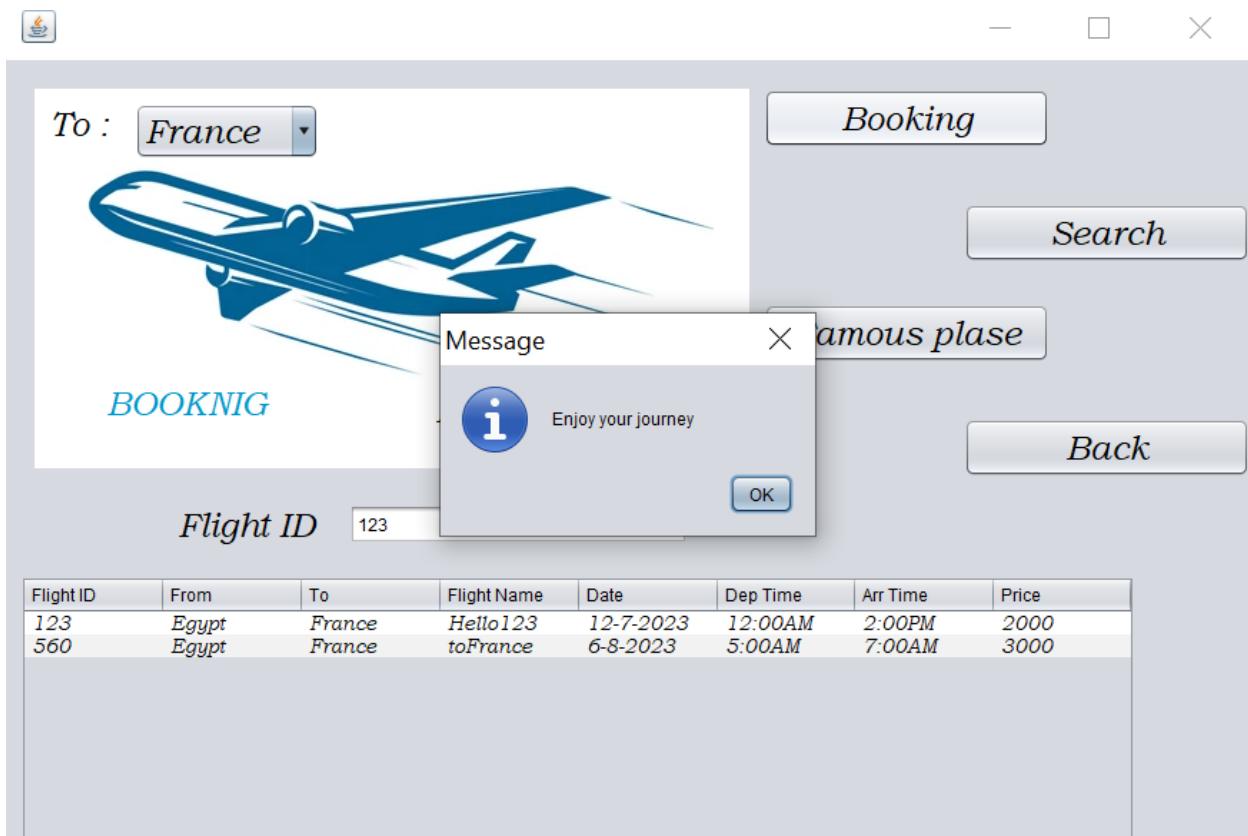
Class Book : clicked Search



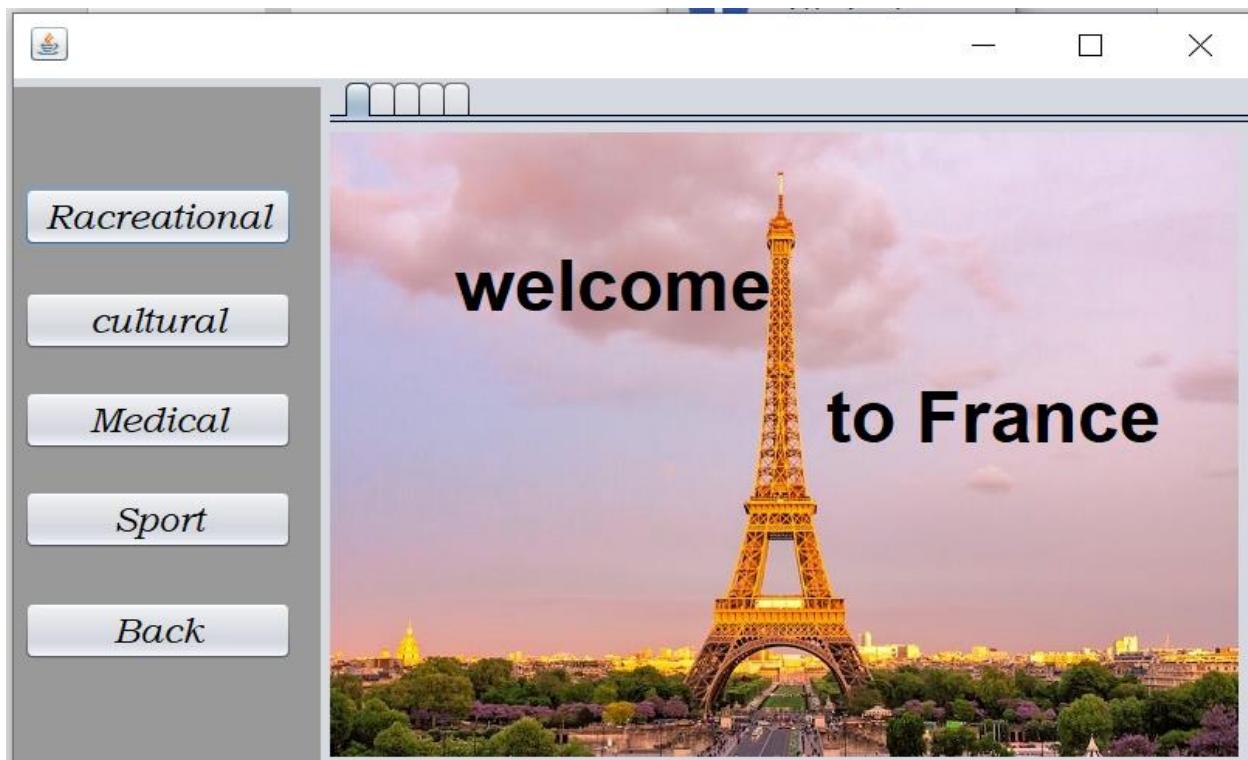
Show Flight available

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

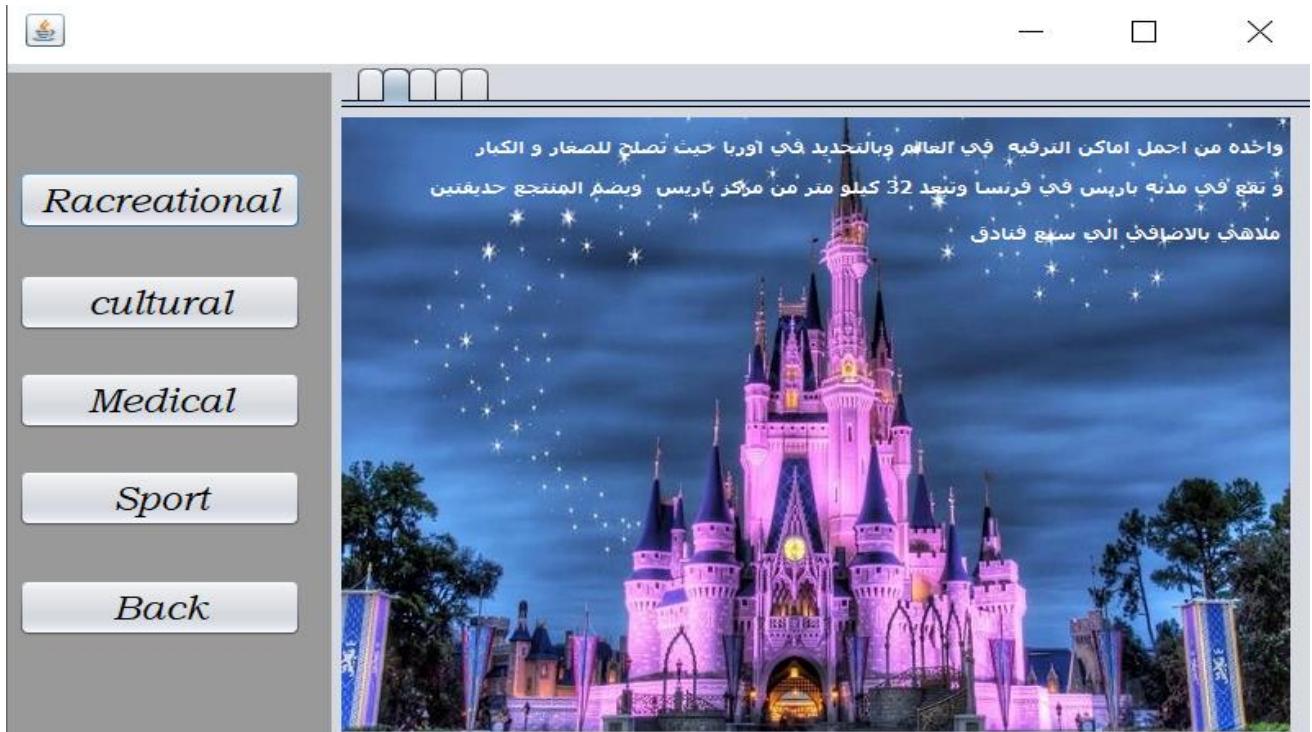




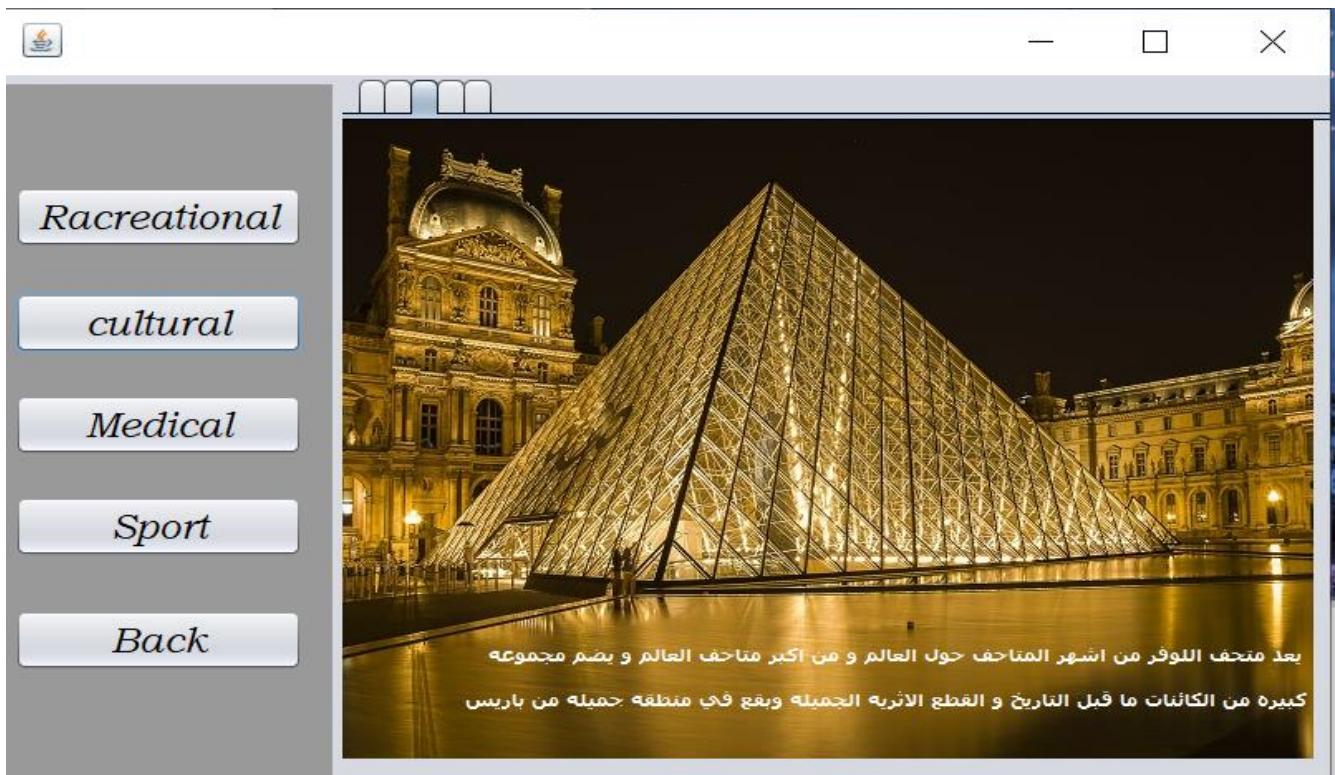
Class Book : clicked Famous place



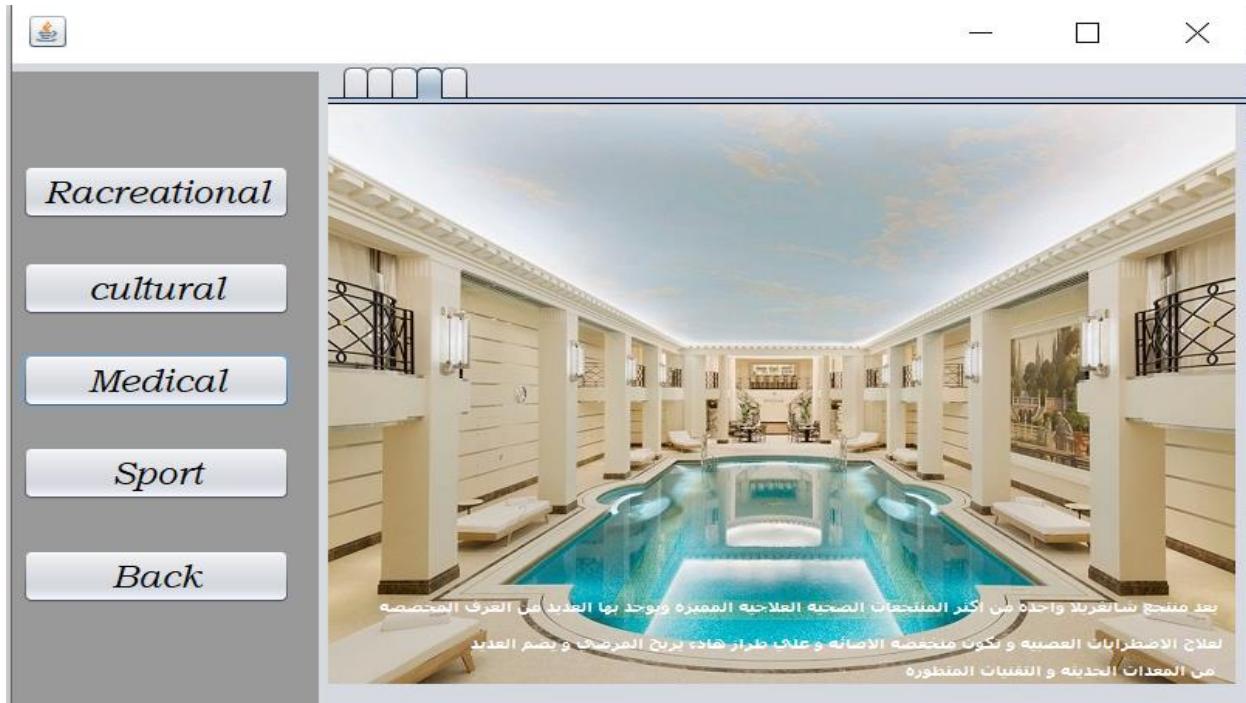
Class Book : clicked Famous place and clicked Racreational



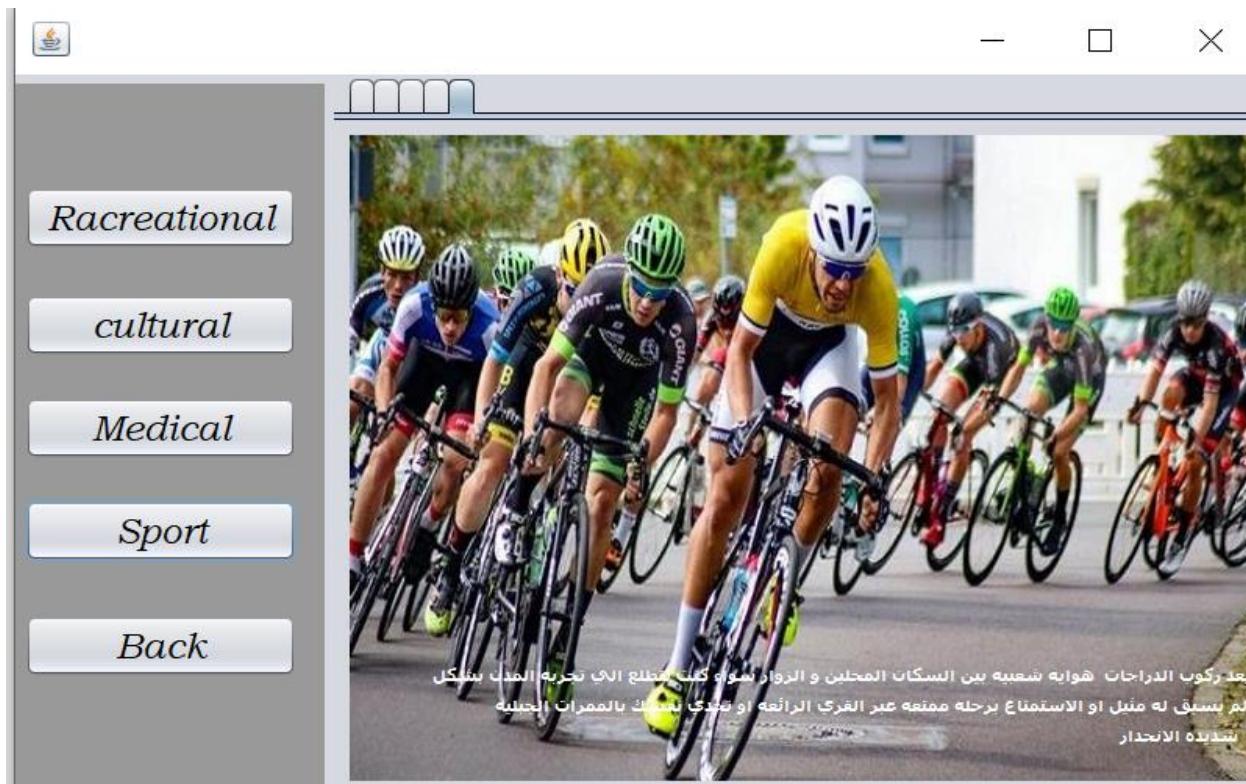
Class Book : clicked Famous place and clicked cultural



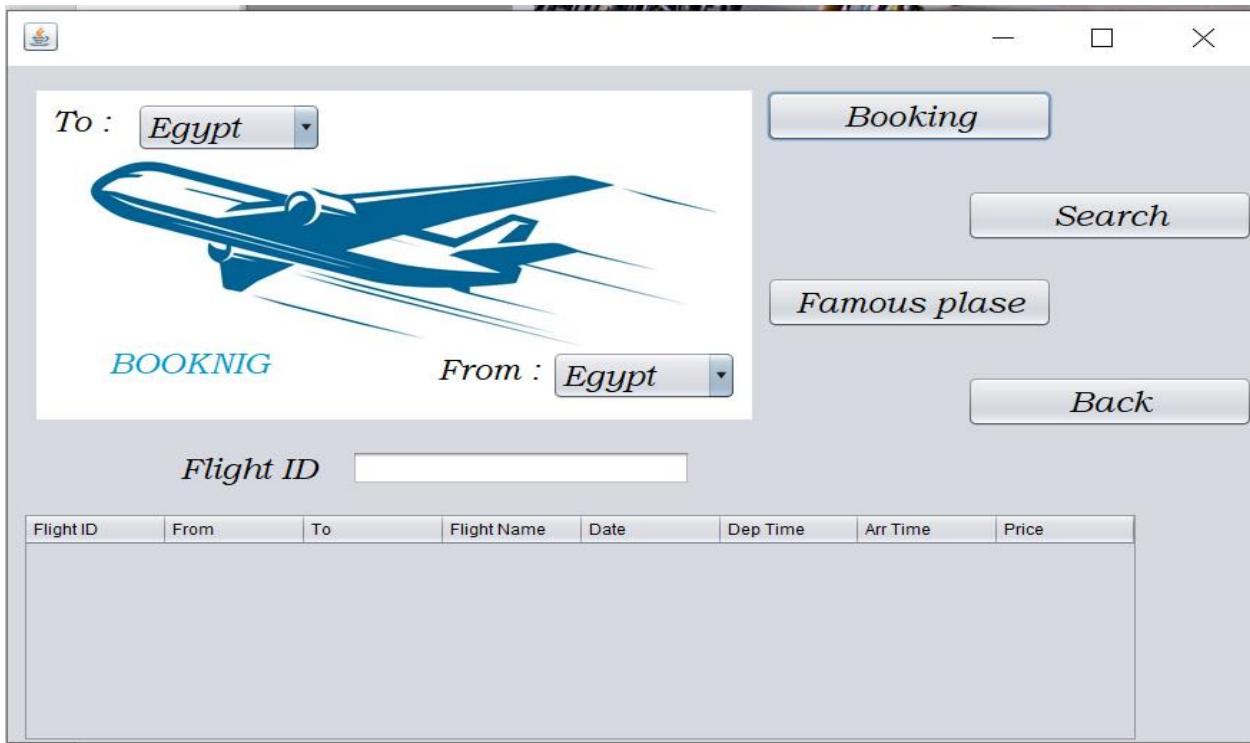
Class Book : clicked Famous place and clicked Medical



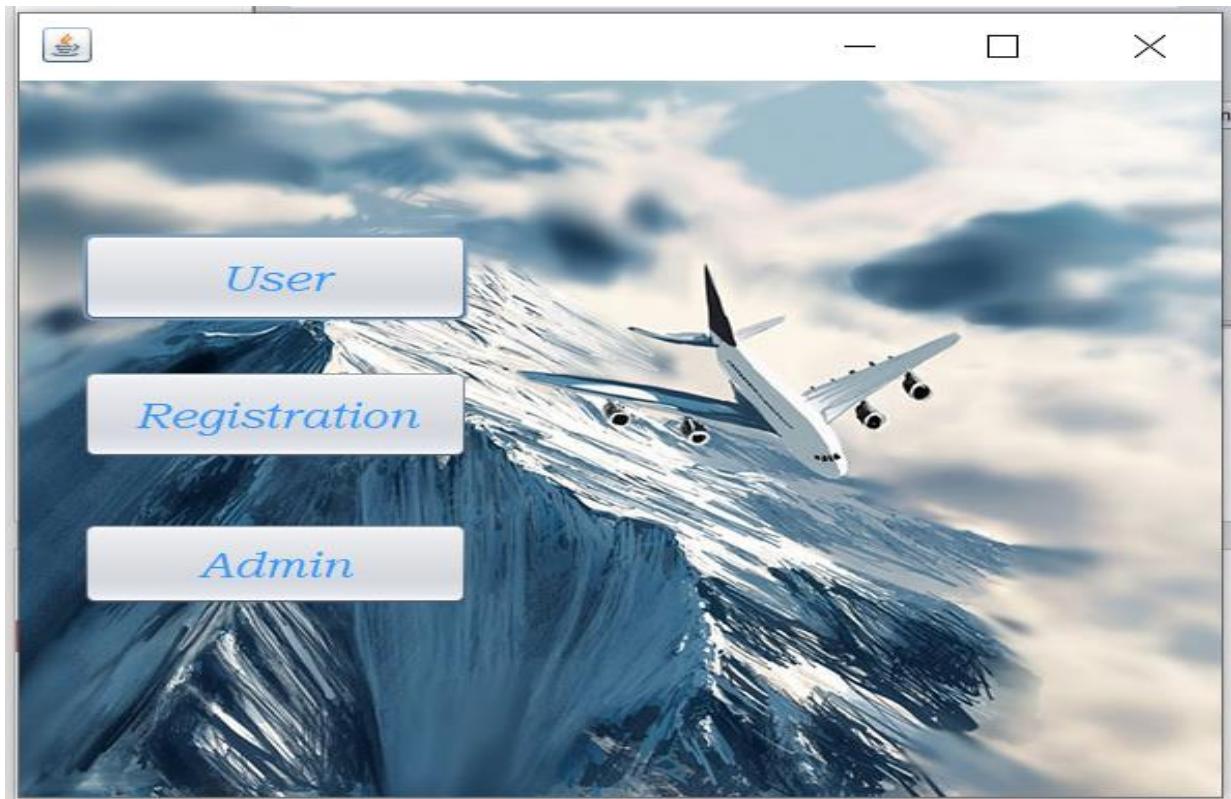
Class Book : clicked Famous place and clicked sport



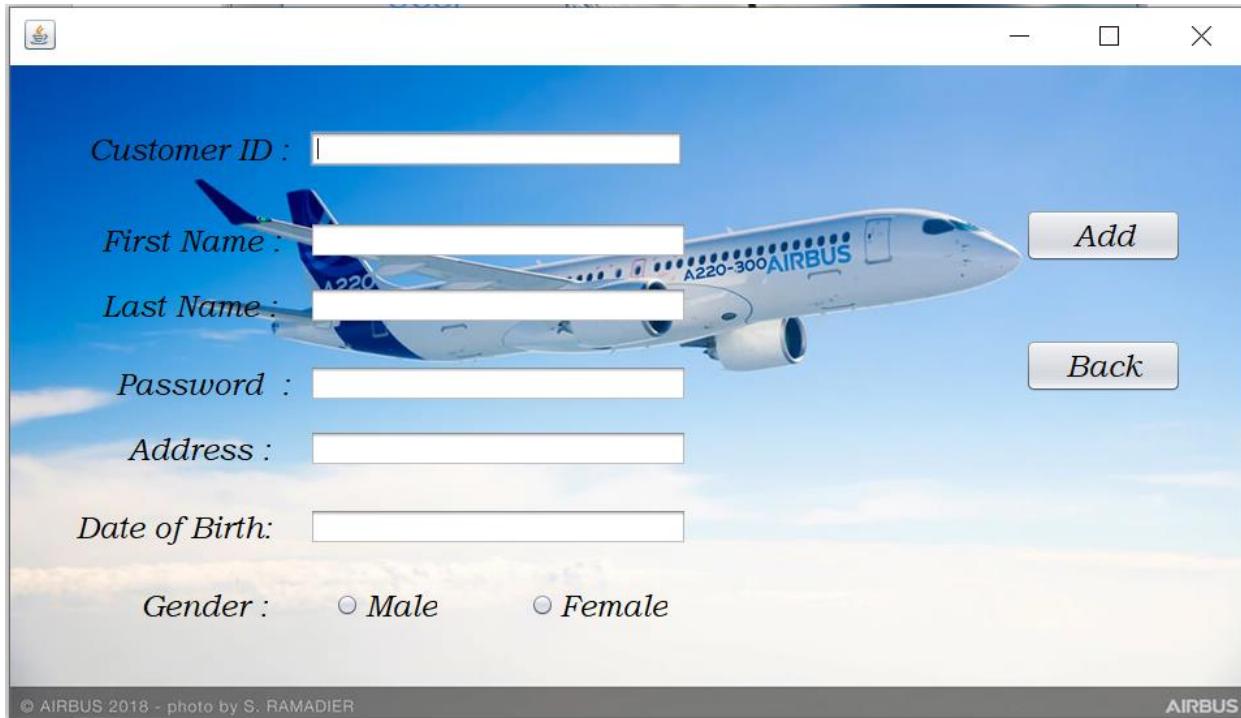
Class Book : clicked Famous place and Back



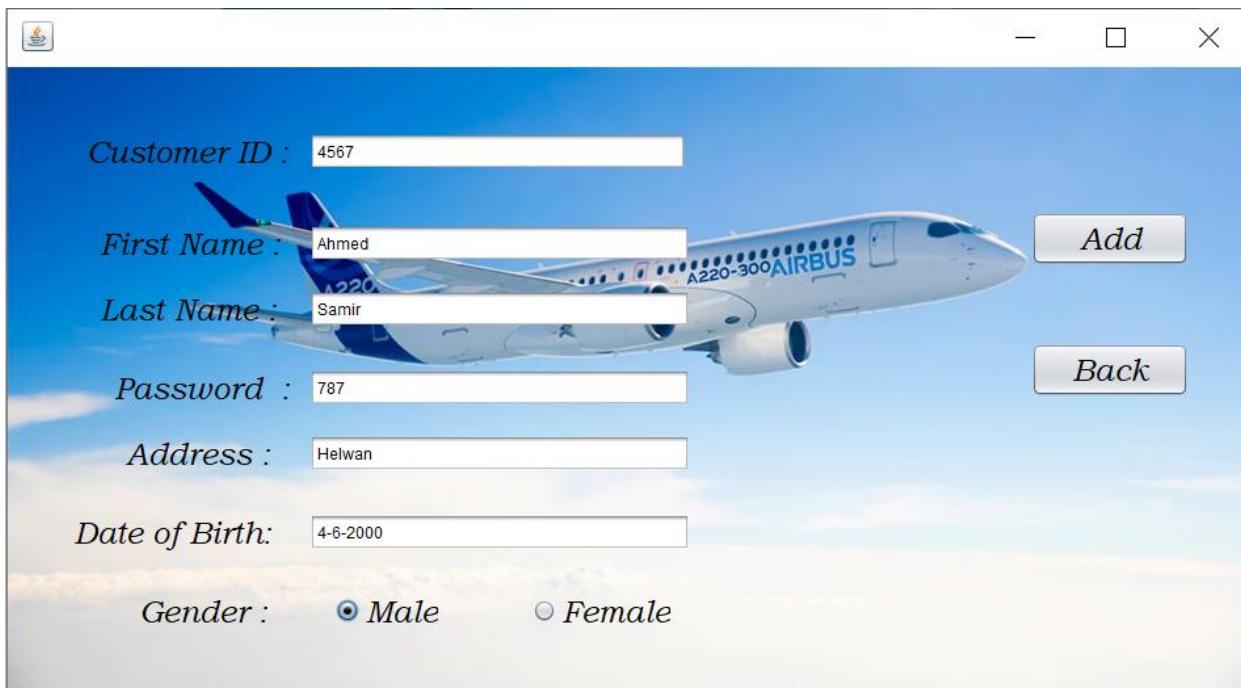
Class Book : clicked Back



Main Class login : Clicked Registration



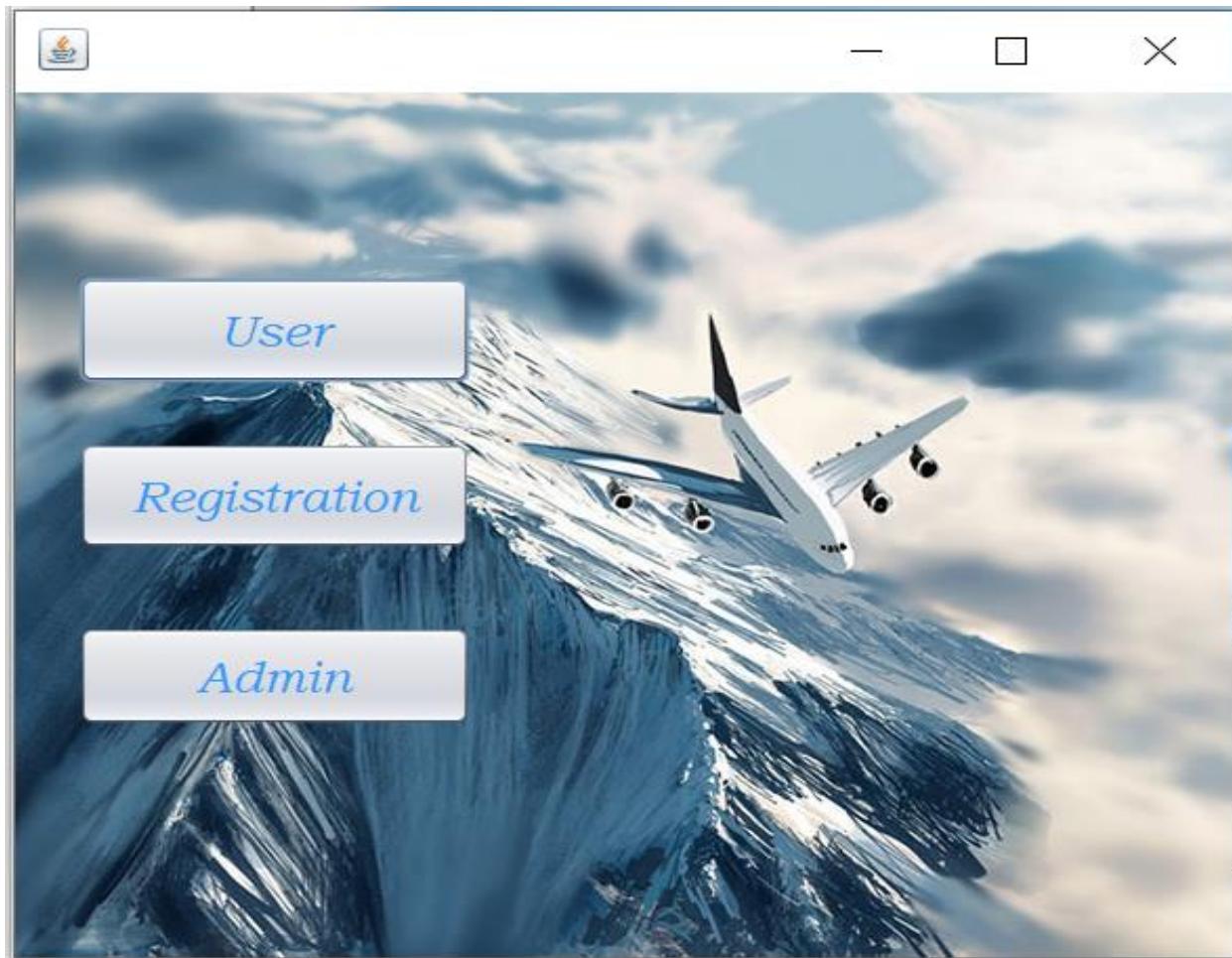
Registration : wrote information and clicked Add

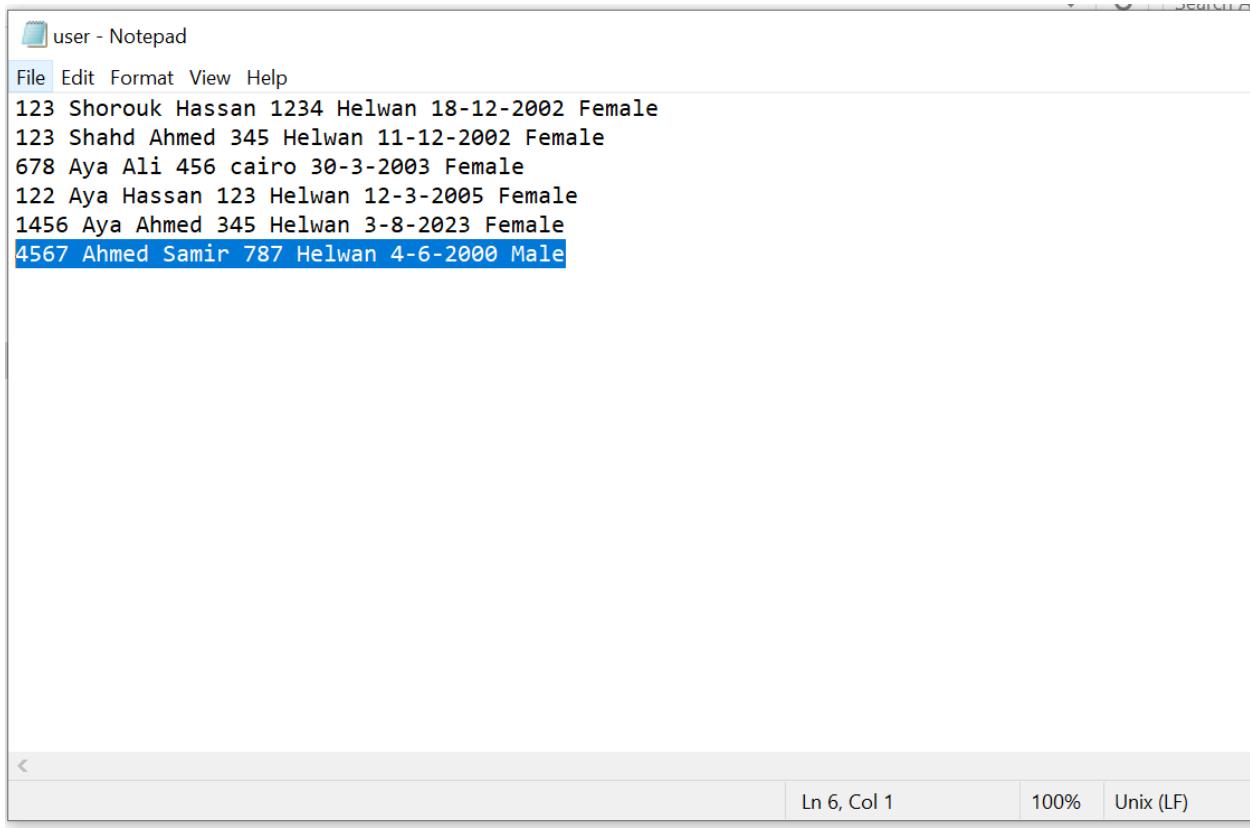


The screenshot shows a registration form overlaid on a background image of an Airbus A320 aircraft in flight against a blue sky with white clouds. The form fields include:

- Customer ID :** 4567
- First Name :** Ahmed
- Last Name :** Samir
- Password :** 787
- Address :** Helwan
- Date of Birth:** 4-6-2000
- Gender :** Male Female

An "Add" button is located in the top right corner of the form area. A modal dialog box titled "Message" is centered, displaying "Successful Registration" with an information icon (blue circle with white "i"). An "OK" button is at the bottom right of the dialog.



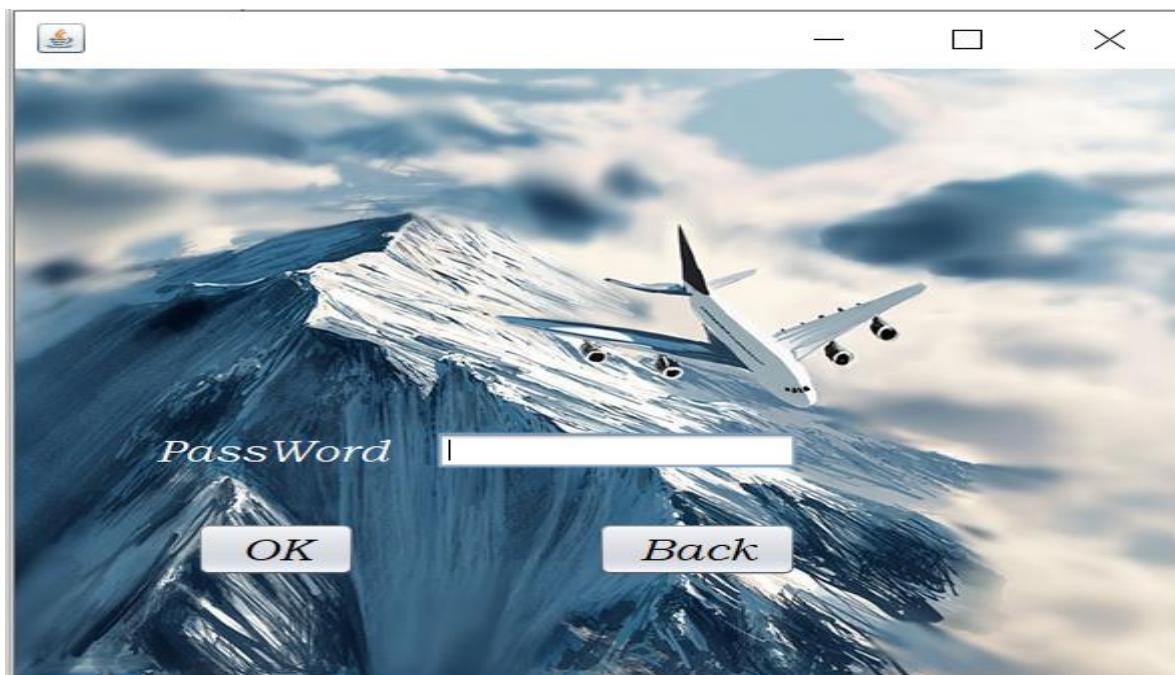


The screenshot shows a Notepad window titled "user - Notepad". The menu bar includes File, Edit, Format, View, and Help. The main content area displays a list of user records:

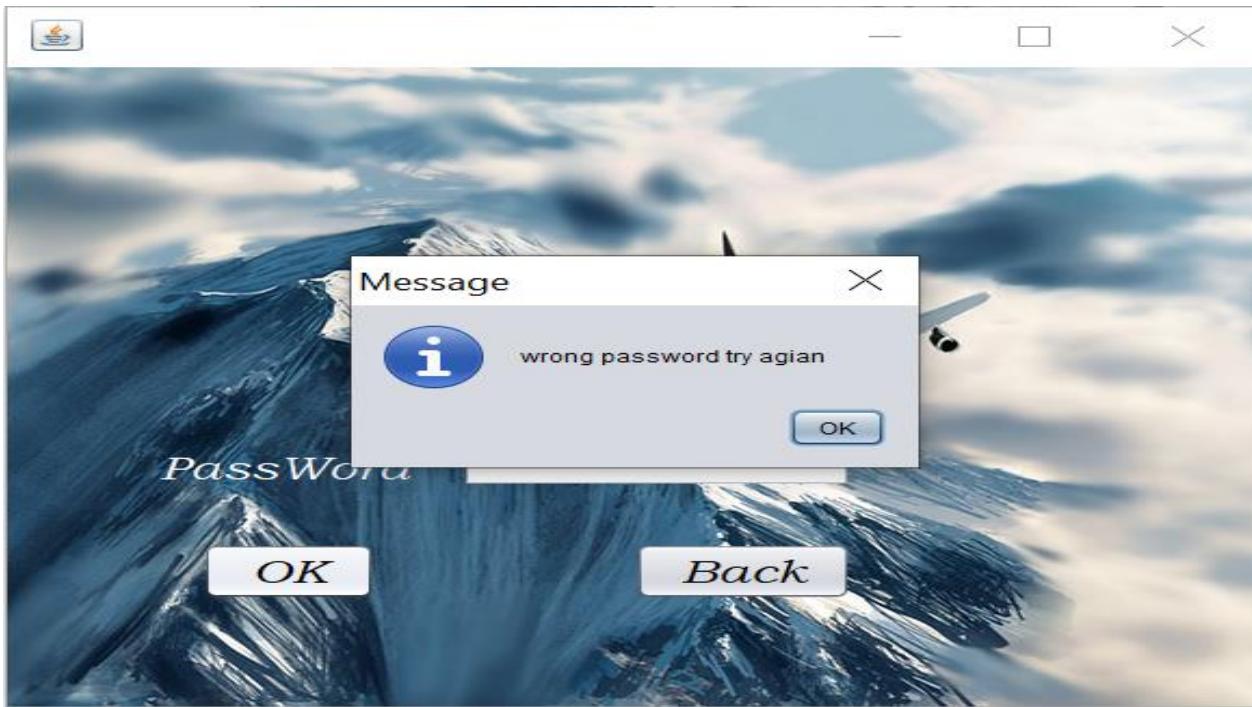
```
123 Shorouk Hassan 1234 Helwan 18-12-2002 Female
123 Shahd Ahmed 345 Helwan 11-12-2002 Female
678 Aya Ali 456 cairo 30-3-2003 Female
122 Aya Hassan 123 Helwan 12-3-2005 Female
1456 Aya Ahmed 345 Helwan 3-8-2023 Female
4567 Ahmed Samir 787 Helwan 4-6-2000 Male
```

The last record, "4567 Ahmed Samir 787 Helwan 4-6-2000 Male", is highlighted with a blue selection bar. The status bar at the bottom right shows "Ln 6, Col 1", "100%", and "Unix (LF)".

Main Class login : Clicked Admin



Admin :Clicked OK after entered wrong password



Admin :Clicked OK after entered right password

A screenshot of the "Admin" section of the Airline Reservation System. The top navigation bar has tabs for "Add Flight" and "Delete Flight". Below the navigation, there are several input fields and buttons:

- "Flight ID :" followed by an input field.
- "From :" followed by a dropdown menu set to "Egypt" and an "Add" button to its right.
- "To :" followed by a dropdown menu set to "Egypt" and a "Cancel" button to its right.
- "Flight Name :" followed by an input field.
- "Date :" followed by an input field.
- "Dep Time :" followed by an input field.
- "Arr Time :" followed by an input field.
- "Ticket Price :" followed by an input field.
- A "Back" button located to the right of the "Flight Name :" field.

Admin :Add Flight

The screenshot shows a Windows-style application window titled "Admin :Add Flight". The window has a toolbar with "Add Flight" and "Delete Flight" buttons. Below the toolbar, there are several input fields and dropdown menus:

- Flight ID :** 846
- From :** Egypt
- To :** England
- Flight Name :** Hello_England
- Date :** 6-12-2023
- Dep Time :** 7:00AM
- Arr Time :** 10:00AM
- Ticket Price :** 4000

On the right side of the form, there are three buttons: "Add" (highlighted in blue), "Cancel", and "Back".

Admin : Add Flight : Clicked Add

The screenshot shows the same "Admin :Add Flight" window after the "Add" button was clicked. A message dialog box titled "Message" appears in the center, displaying "Successful process" with an information icon. The dialog has an "OK" button.

The form fields remain the same as in the previous screenshot:

- Flight ID :** 846
- From :** Egypt
- To :** England
- Flight Name :** Hello_England
- Date :** 6-12-2023
- Dep Time :** 7:00AM
- Arr Time :** 10:00AM
- Ticket Price :** 4000

On the right side, the "Add" button is now highlighted in blue, and the "Cancel" and "Back" buttons are visible.

Admin : Add Flight : Clicked Cancel

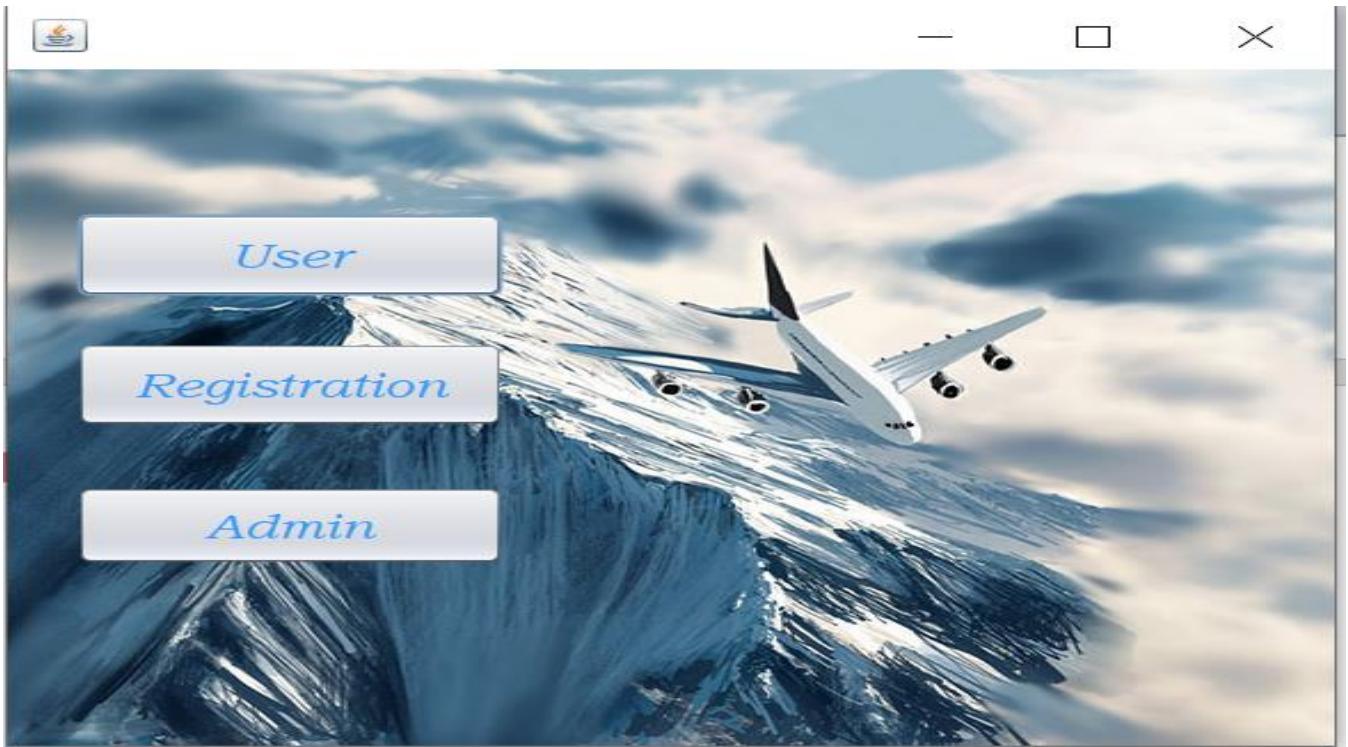
This screenshot shows the 'Add Flight' window with the 'Cancel' button being clicked. The window has tabs for 'Add Flight' and 'Delete Flight'. The 'Flight ID' field contains '3456'. The 'From' dropdown is set to 'Egypt' and the 'To' dropdown is set to 'England'. The 'Flight Name' field contains 'hHH'. The 'Date' field contains '3:00'. The 'Dep Time' and 'Arr Time' fields are empty. The 'Ticket Price' field is also empty. The 'Cancel' button is highlighted with a blue glow.

Before Clicked Cancel

This screenshot shows the 'Add Flight' window before the 'Cancel' button is clicked. The interface is identical to the one above it, with all fields and buttons in their initial state. The 'Flight ID' field is empty, and the other fields ('From', 'To', 'Flight Name', 'Date', 'Dep Time', 'Arr Time', 'Ticket Price') are also empty or show their default values.

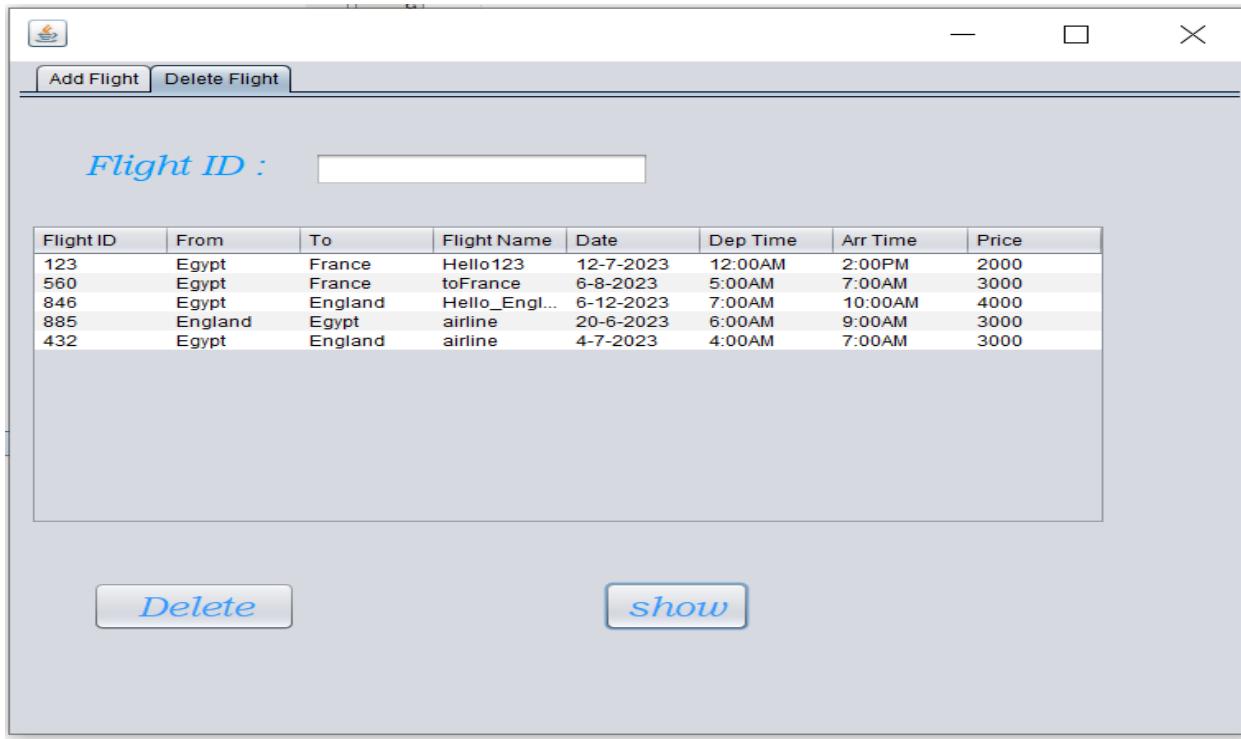
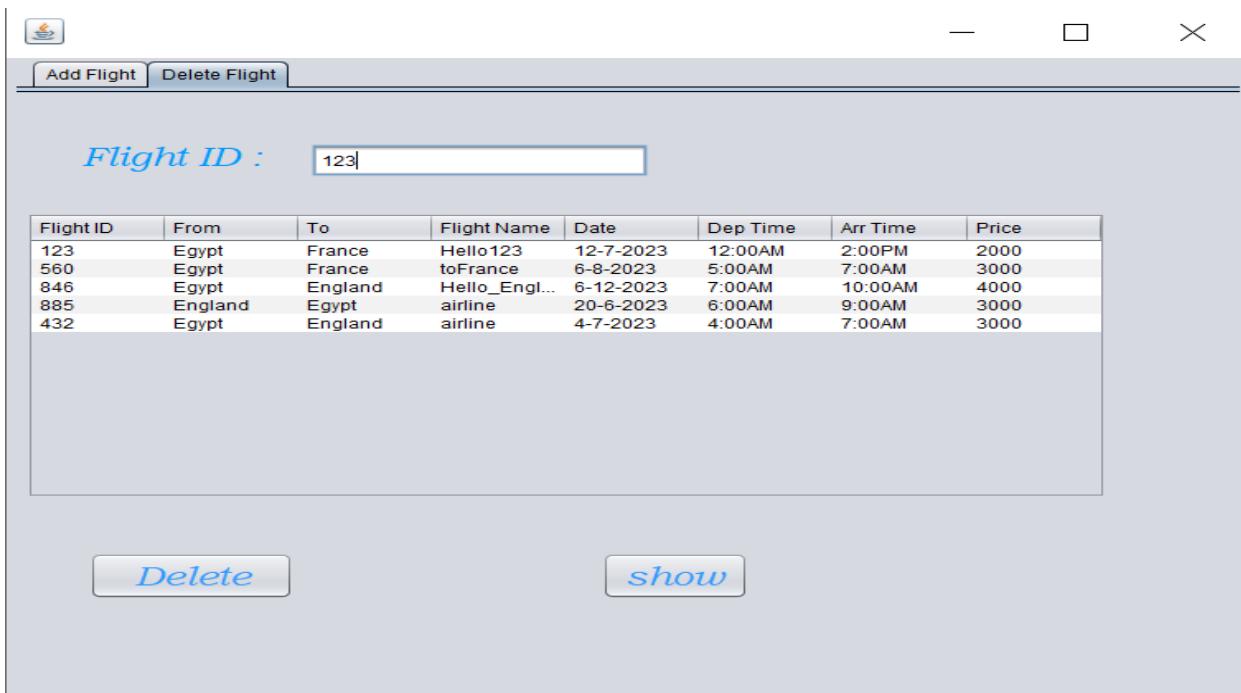
After Clicked Cancel

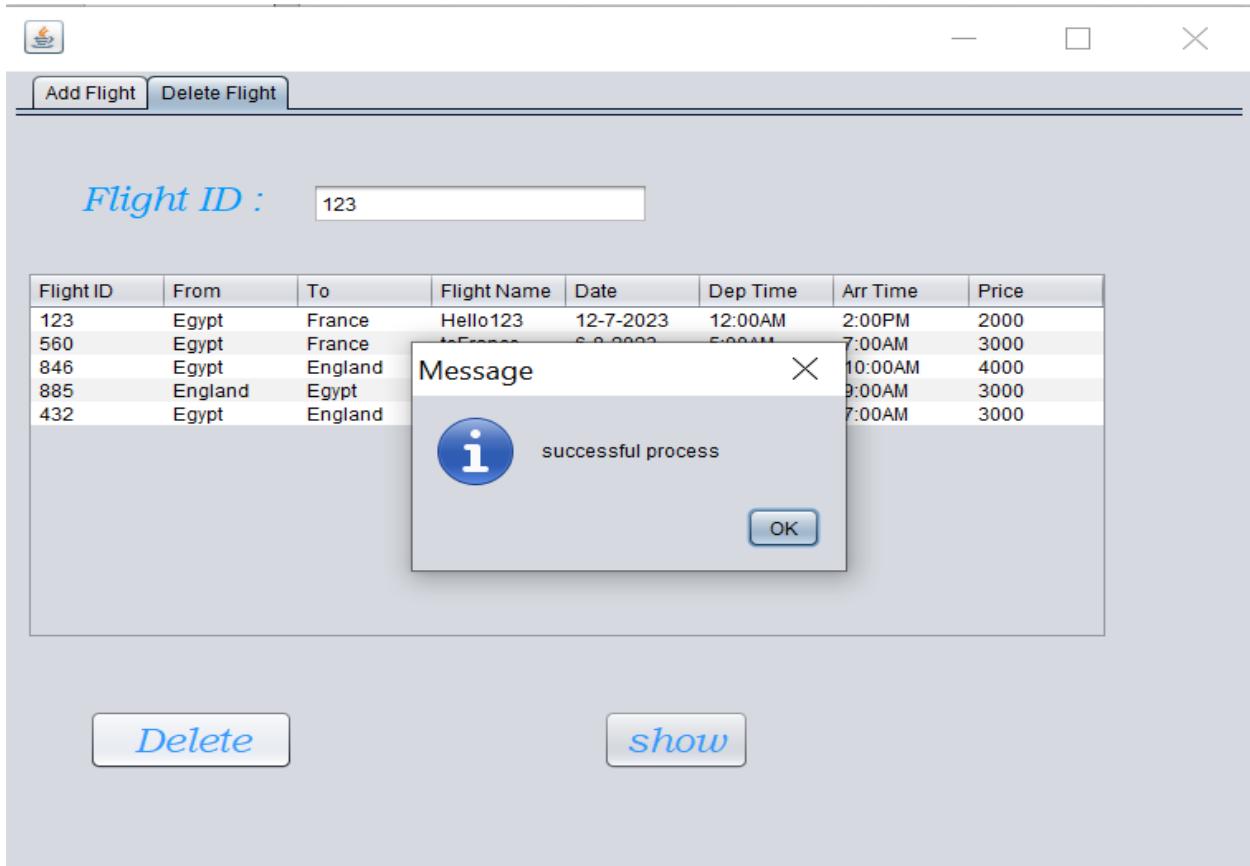
Admin : Add Flight : Clicked Back



Admin : Delete Flight

A screenshot of the same Windows-style application window from the previous image, but with a different tab selected. The "Delete Flight" tab is highlighted with a blue border, while the "Add Flight" tab is unselected. Below the tabs, there is a label "Flight ID :" followed by an empty text input field. Further down, there is a table with a single row and several columns, labeled with headers: "Flight ID", "From", "To", "Flight Name", "Date", "Dep Time", "Arr Time", and "Price". At the bottom of the window, there are two buttons: "Delete" on the left and "show" on the right.

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



```

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

```

