

Airline Reservation System

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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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 - 1.1 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

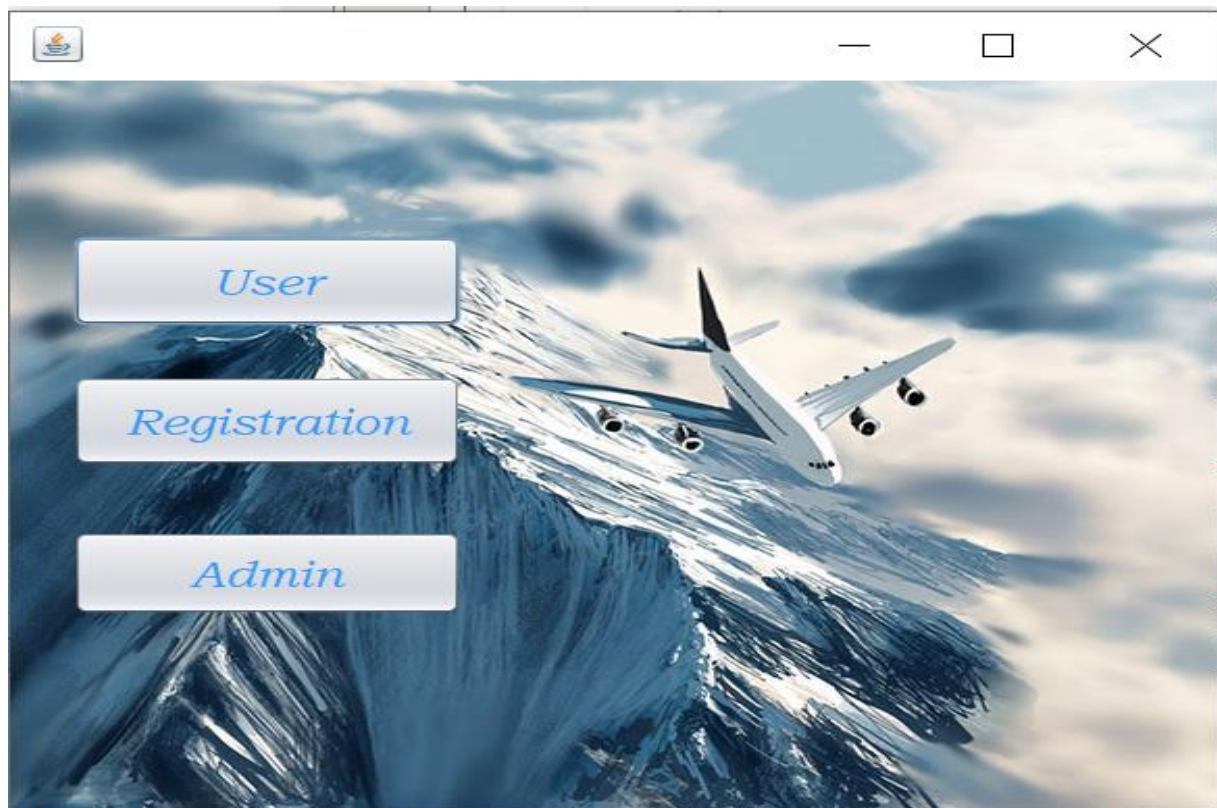
As admin you can add flights in "Flight" file you have to add flight name, flight date, destination and some other information about the flight.

2-Delete Flight

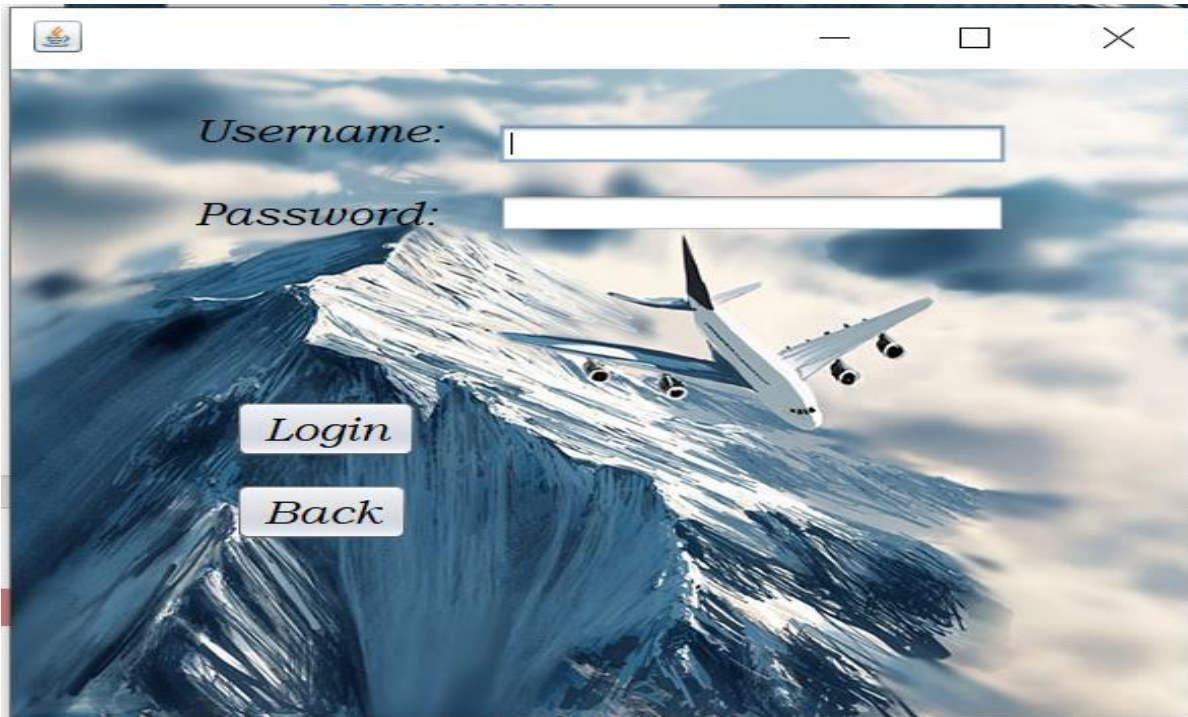
If you wish to cancel a flight then you will choose this option and we will delete all of its data from "Flight" file.

- **snapshots of the project while running**

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

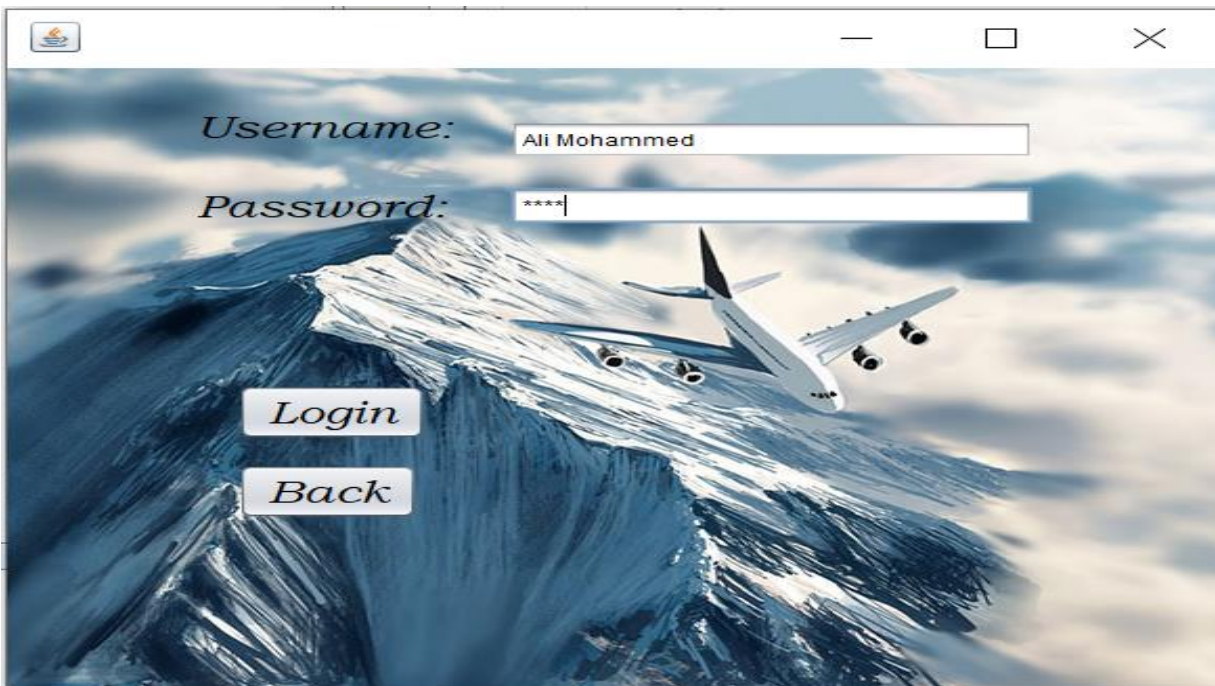


Main Class login : Clicked User



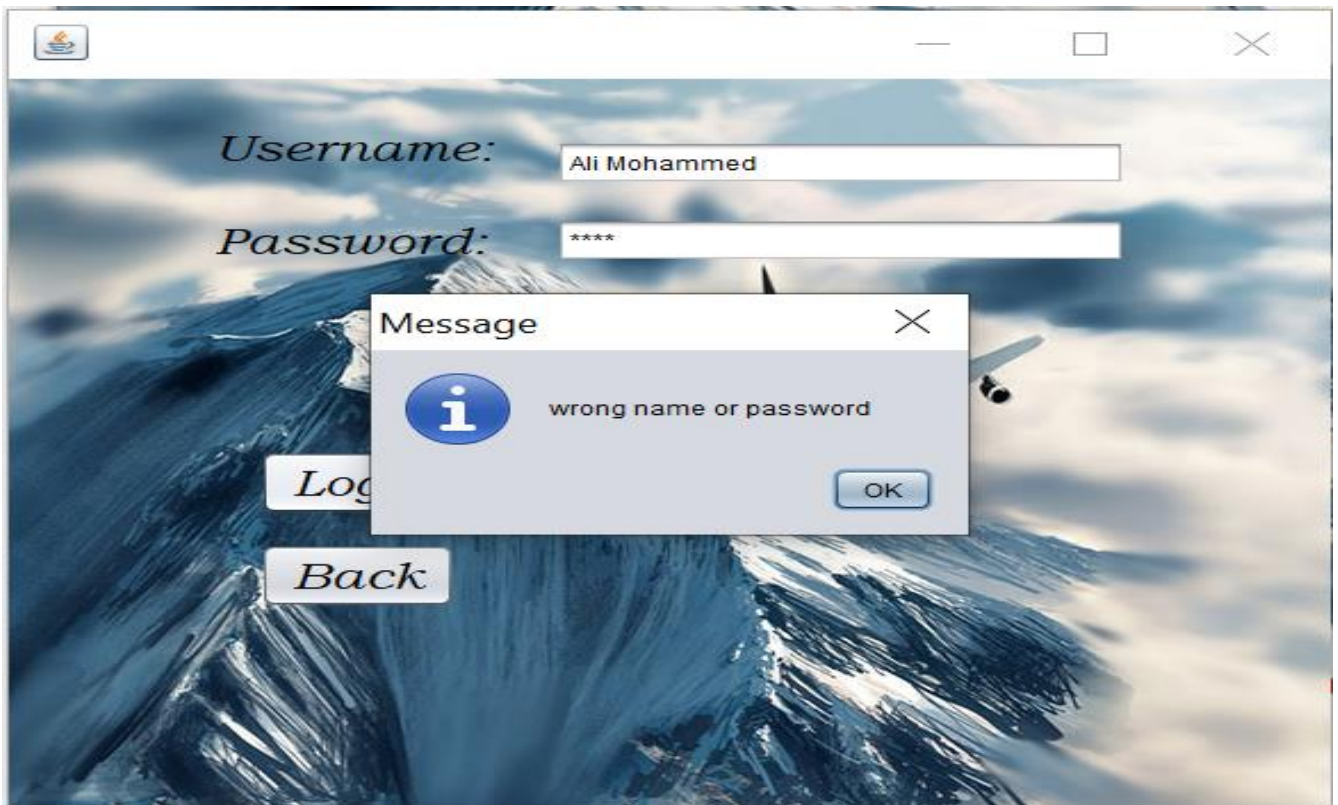
A screenshot of a login window titled "Main Class login : Clicked User". The window has a standard Windows-style title bar with minimize, maximize, and close buttons. The background is a painting of a large white airplane flying over a snowy mountain range under a cloudy sky. The login form consists of two text input fields. The first field is labeled "Username:" and is empty. The second field is labeled "Password:" and is also empty. Below the password field are two buttons: "Login" and "Back".

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



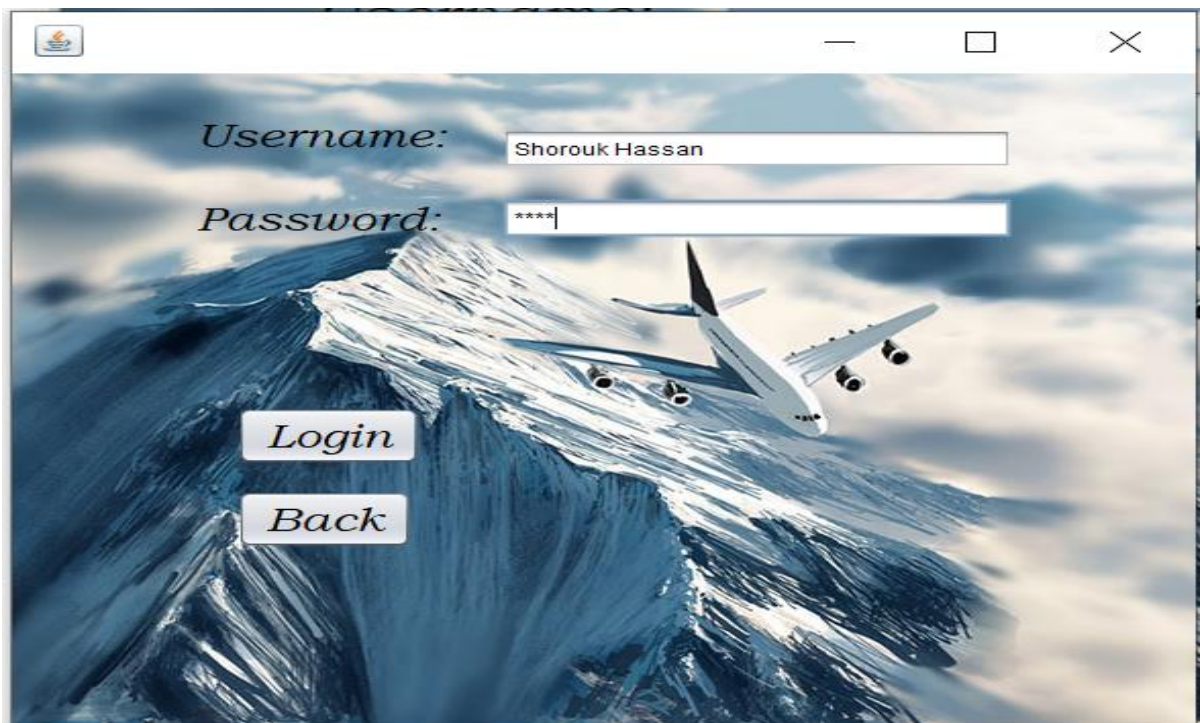
A screenshot of the same login window, but now the "Username:" field contains the text "Ali Mohammed" and the "Password:" field contains five asterisks "*****". The "Login" and "Back" buttons remain visible below the password field.

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

To : *Egypt*

BOOKNIG

From : *Egypt*

Flight ID

Flight ID	From	To	Flight Name	Date	Dep Time	Arr Time	Price
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entered right name and password after clicked login

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

To : *France*

BOOKNIG

From : *Egypt*

Flight ID

Flight ID	From	To	Flight Name	Date	Dep Time	Arr Time	Price
-----------	------	----	-------------	------	----------	----------	-------

Class Book : clicked Search

To : France

From : Egypt

BOOKNIG

Flight ID

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	toFrance	6-8-2023	5:00AM	7:00AM	3000

Buttons: *Booking*, *Search*, *Famous plase*, *Back*

Show Flight available

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

To : France

From : Egypt

BOOKNIG

Flight ID

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	toFrance	6-8-2023	5:00AM	7:00AM	3000

Buttons: *Booking*, *Search*, *Famous plase*, *Back*

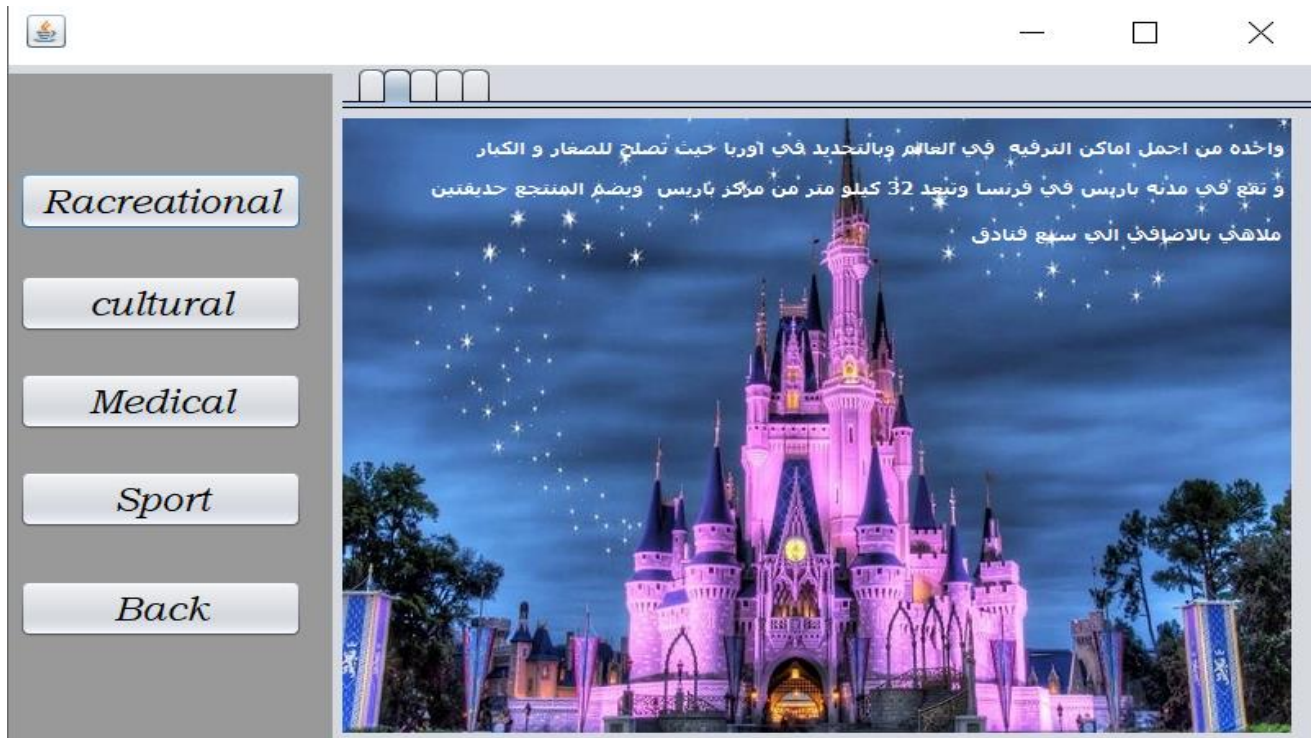
The screenshot shows a web application window titled "Airline Reservation System". The main content area has a light gray background. On the left, there is a "To :" dropdown menu with "France" selected. Below it is a blue airplane icon and the text "BOOKNIG". To the right of the dropdown is a "Booking" button. Further right is a "Search" button. Below the "Search" button is a "Back" button. In the center, there is a "Message" dialog box with a close button (X) and an information icon (i). The message says "Enjoy your journey" and has an "OK" button. Below the message dialog is a "Flight ID" input field with the value "123". At the bottom, there is a table with flight information.

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	toFrance	6-8-2023	5:00AM	7:00AM	3000

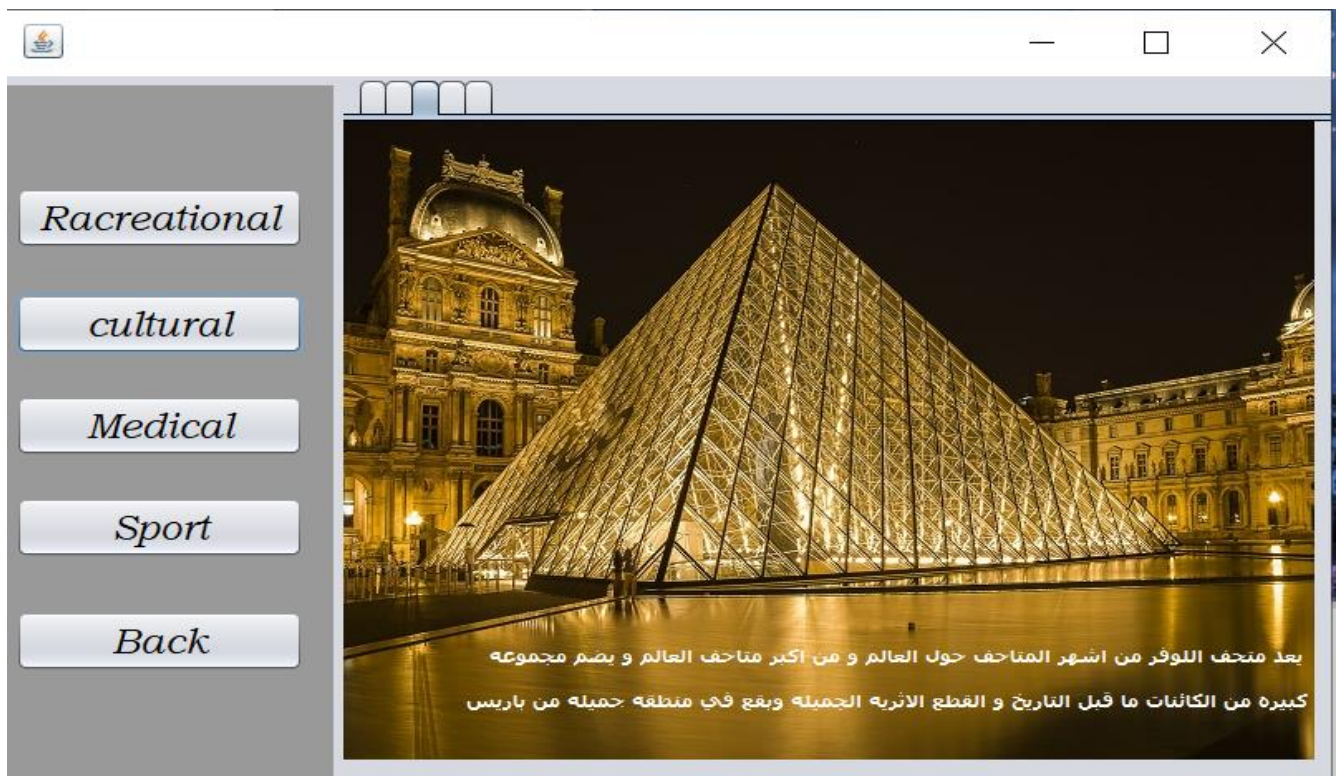
Class Book : clicked Famous place

The screenshot shows a web application window titled "Airline Reservation System". The main content area has a light gray background. On the left, there is a vertical list of buttons: "Racrecational", "cultural", "Medical", "Sport", and "Back". The "Racrecational" button is highlighted. To the right of the buttons is a large image of the Eiffel Tower in Paris at sunset. Overlaid on the image is the text "welcome to France".

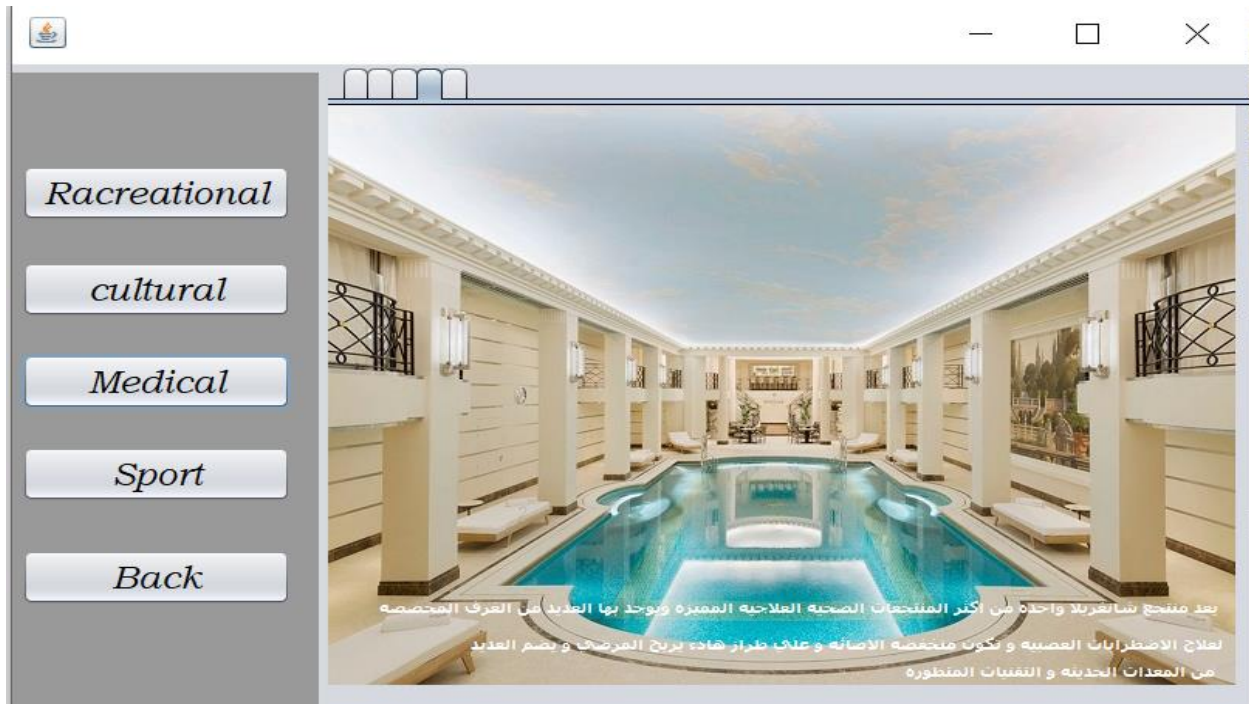
Class Book : clicked Famous place and clicked Racreational



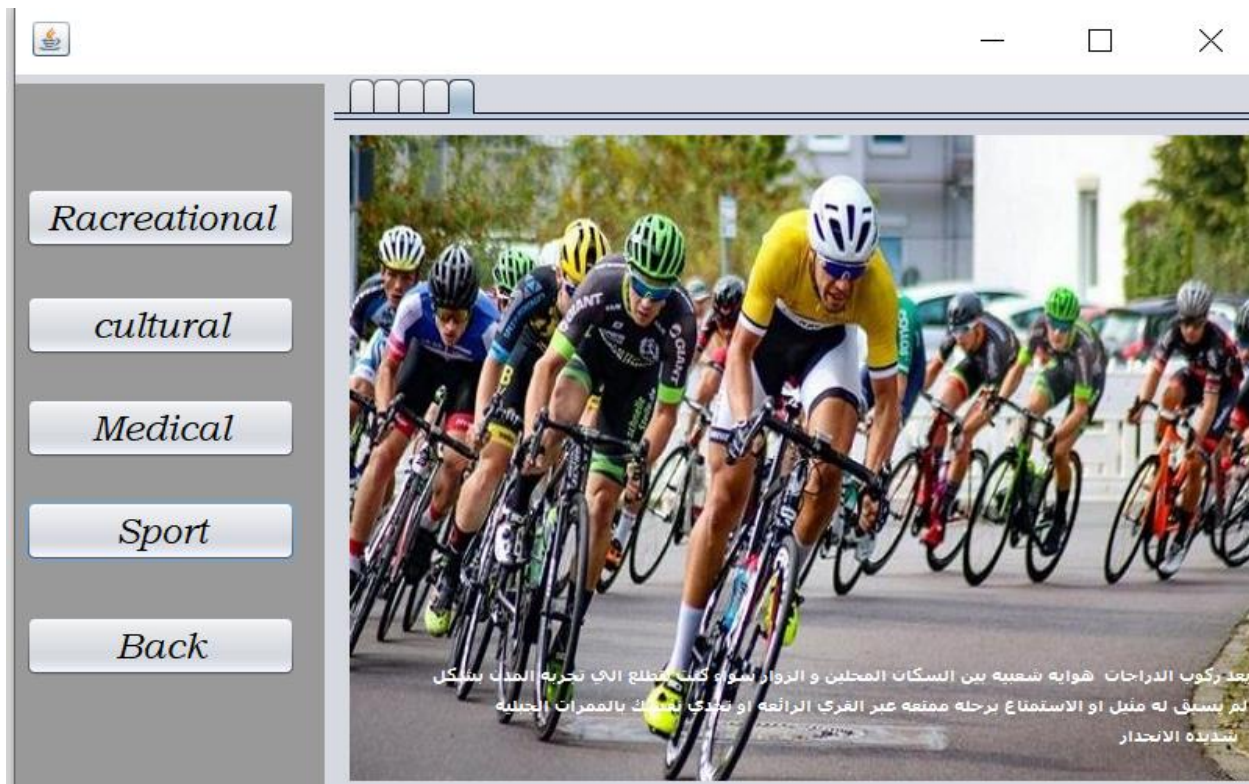
Class Book : clicked Famous place and clicked cultural



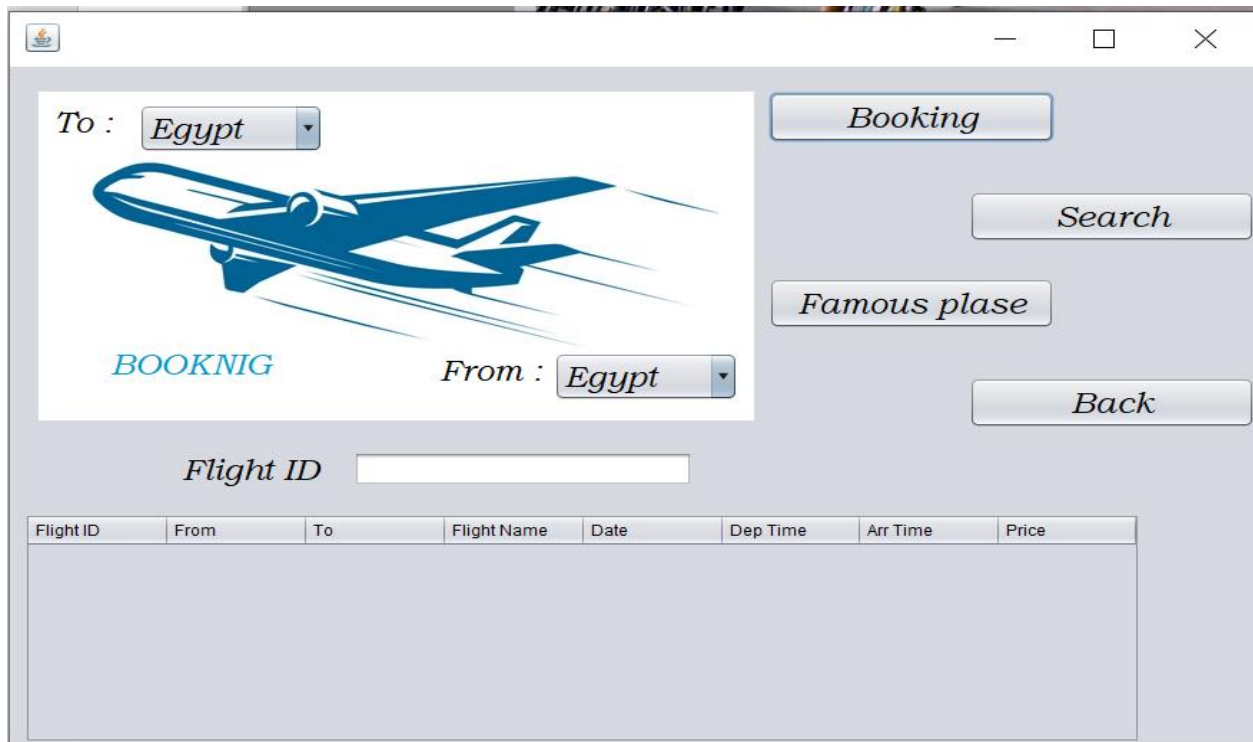
Class Book : clicked Famous place and clicked Medical



Class Book : clicked Famous place and clicked sport



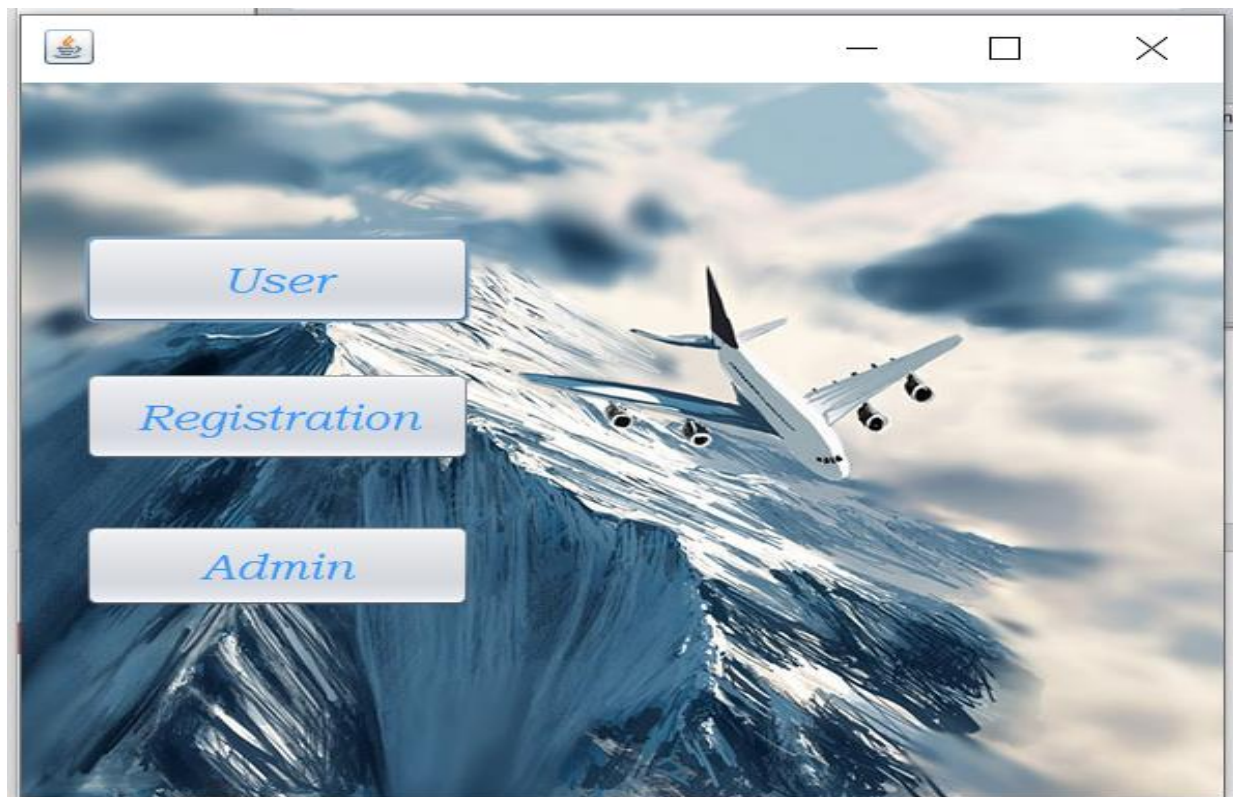
Class Book : clicked Famous place and Back



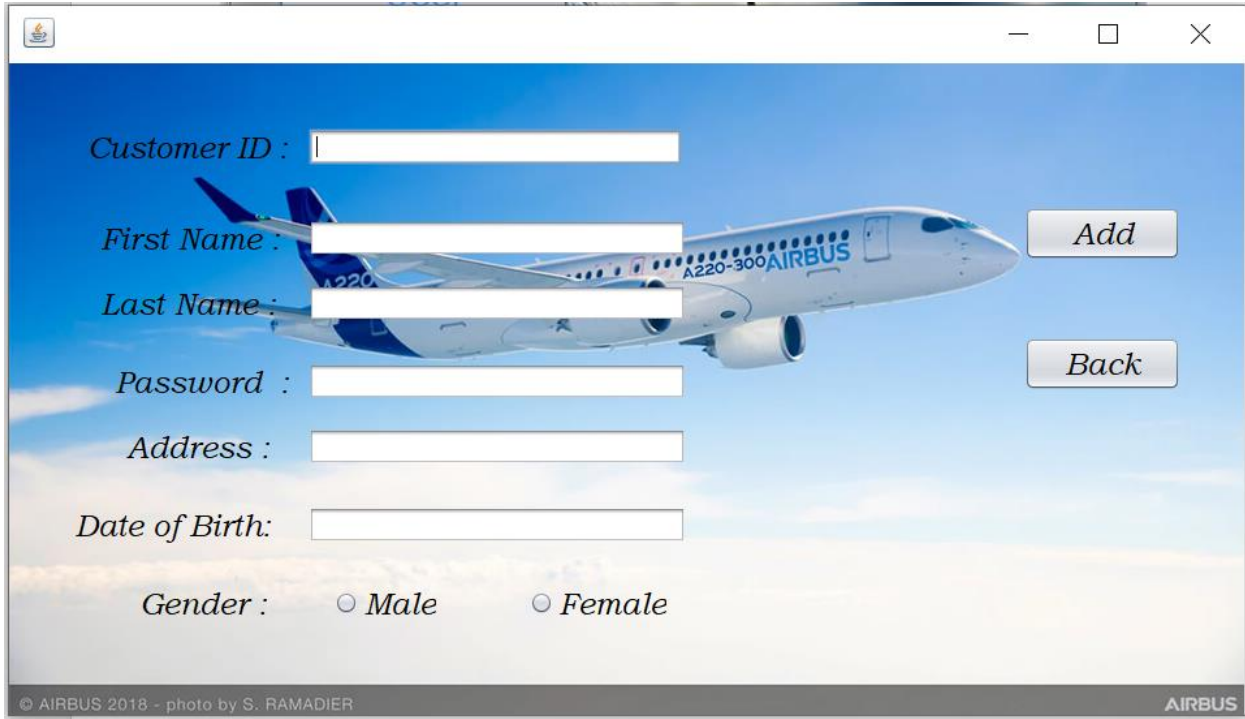
The screenshot shows a web application window titled "Class Book". It features a search interface for flights. On the left, there is a graphic of a blue airplane with the word "BOOKNIG" below it. The search form includes two dropdown menus: "To : Egypt" and "From : Egypt". To the right of the search form are three buttons: "Booking", "Search", and "Famous plase" (likely a typo for "Famous place"). Below the search form is a text input field labeled "Flight ID". At the bottom, there is a table with the following headers: "Flight ID", "From", "To", "Flight Name", "Date", "Dep Time", "Arr Time", and "Price". The table body is currently empty.

Flight ID	From	To	Flight Name	Date	Dep Time	Arr Time	Price
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Class Book : clicked Back



Main Class login : Clicked Registration



Customer ID :

First Name :

Last Name :

Password :

Address :

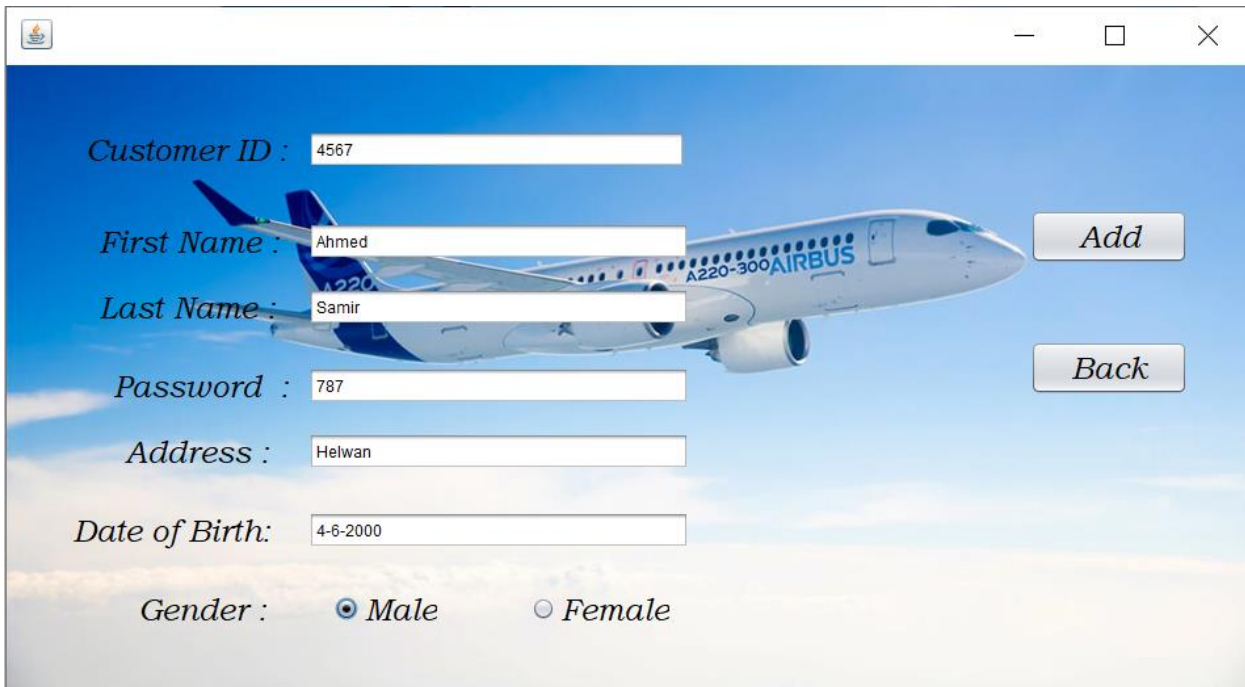
Date of Birth:

Gender : ☐ Male ☐ Female

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AIRBUS

Registration : wrote information and clicked Add



Customer ID :

First Name :

Last Name :

Password :

Address :

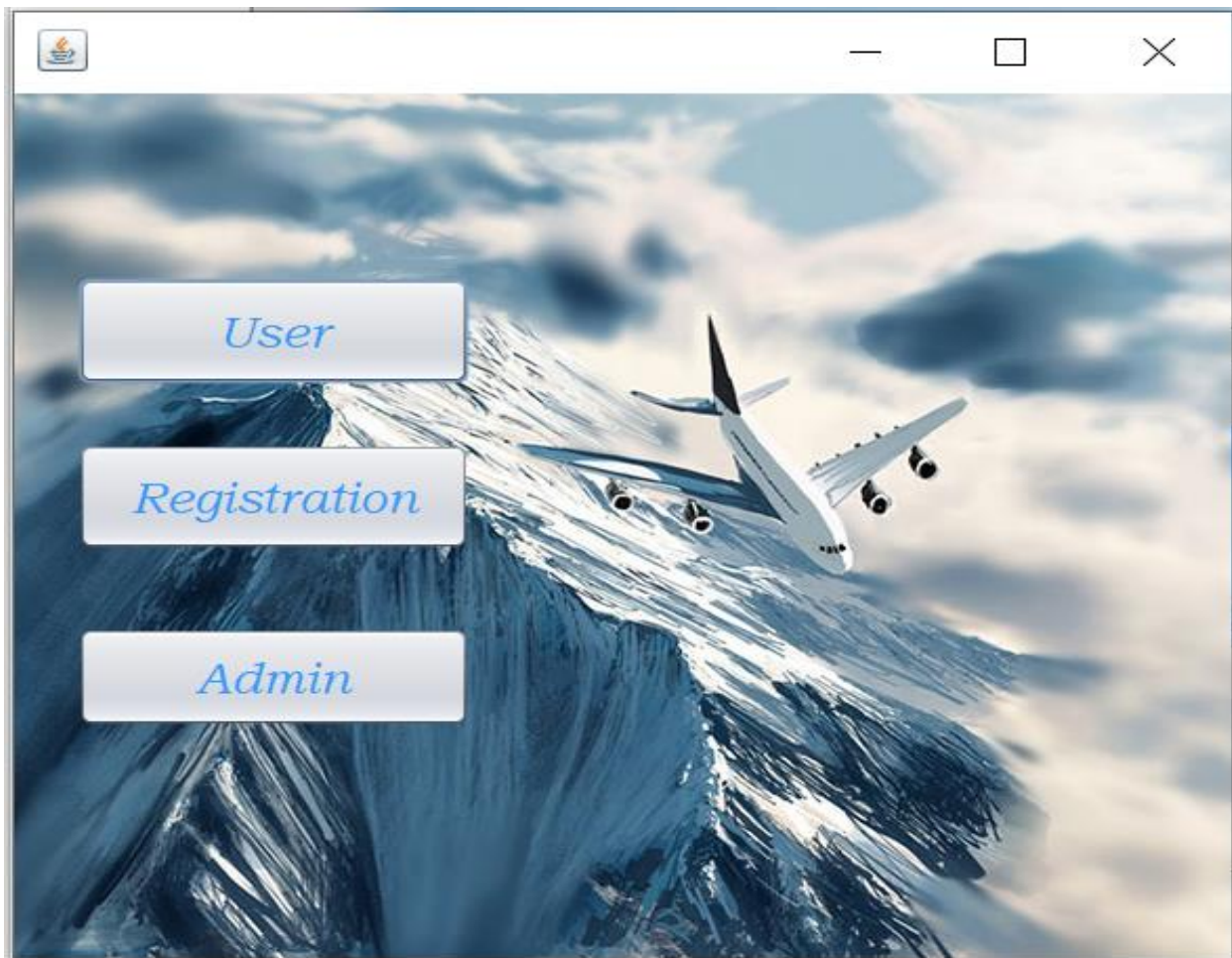
Date of Birth:

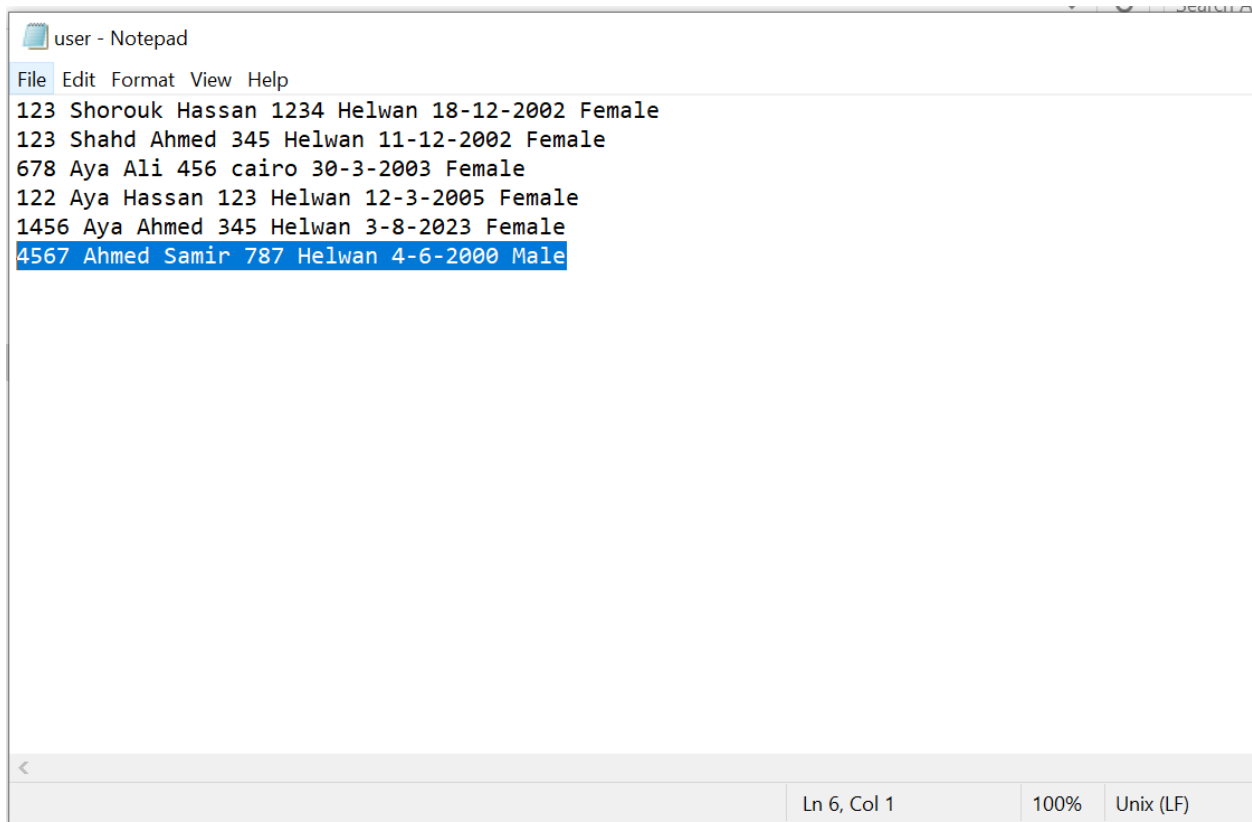
Gender : ☒ Male ☐ Female

The screenshot shows a registration form for an Airline Reservation System. The form is set against a background image of an Airbus A320 aircraft flying over a blue sky. The form fields are as follows:

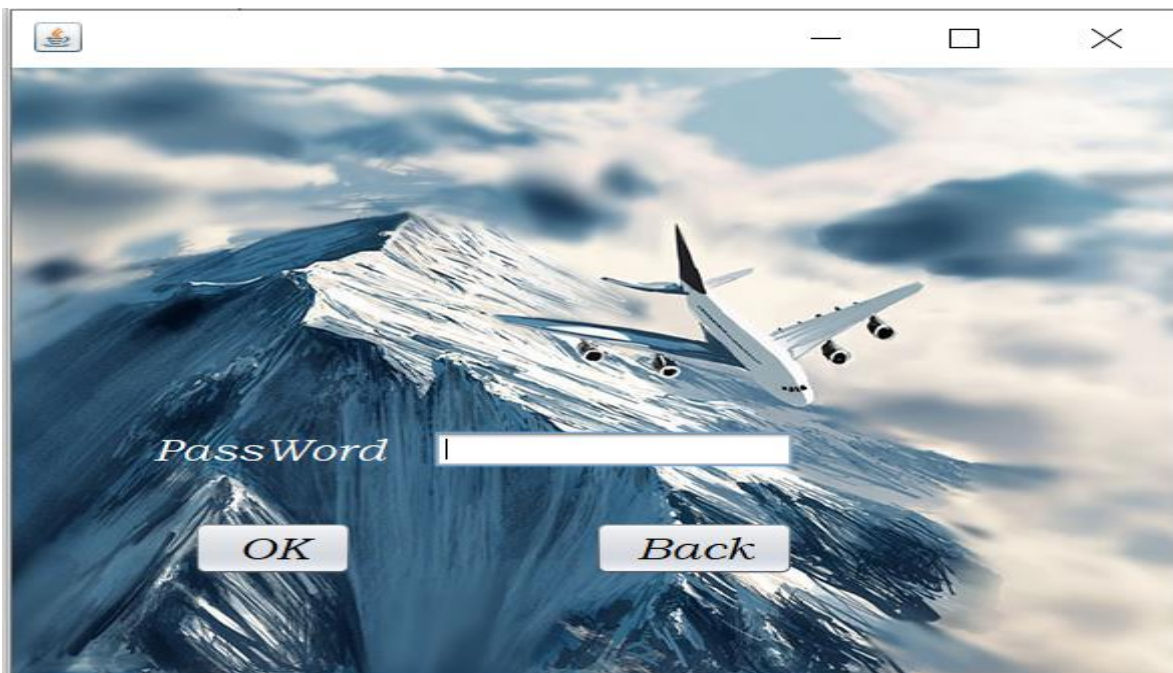
- Customer ID :** 4567
- First Name :** Ahmed
- Last Name :** Samir
- Password :** 787
- Address :** Helwan
- Date of Birth:** 4-6-2000
- Gender :** ☒ Male ☐ Female

On the right side of the form, there are two buttons: **Add** and **Back**. A modal message box is displayed in the center of the form, titled "Message", with an information icon and the text "Successful Registration". The message box has an "OK" button at the bottom right.

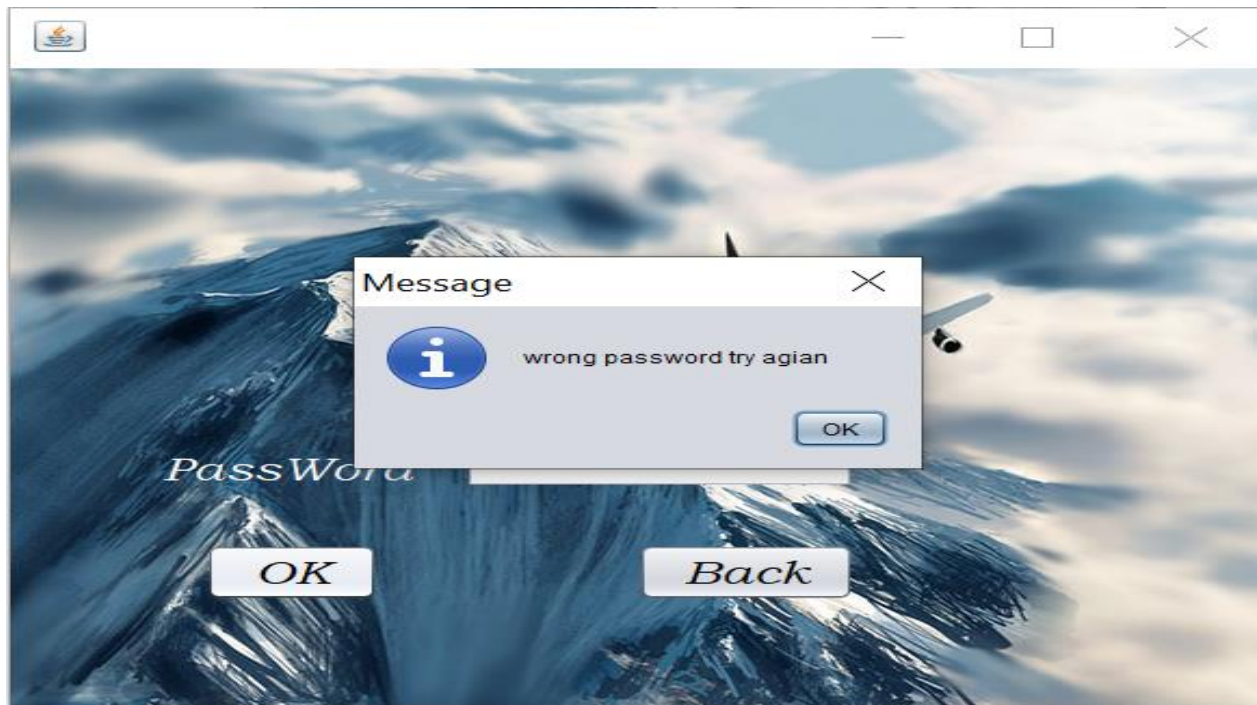




Main Class login : Clicked Admin



Admin :Clicked OK after entered wrong password



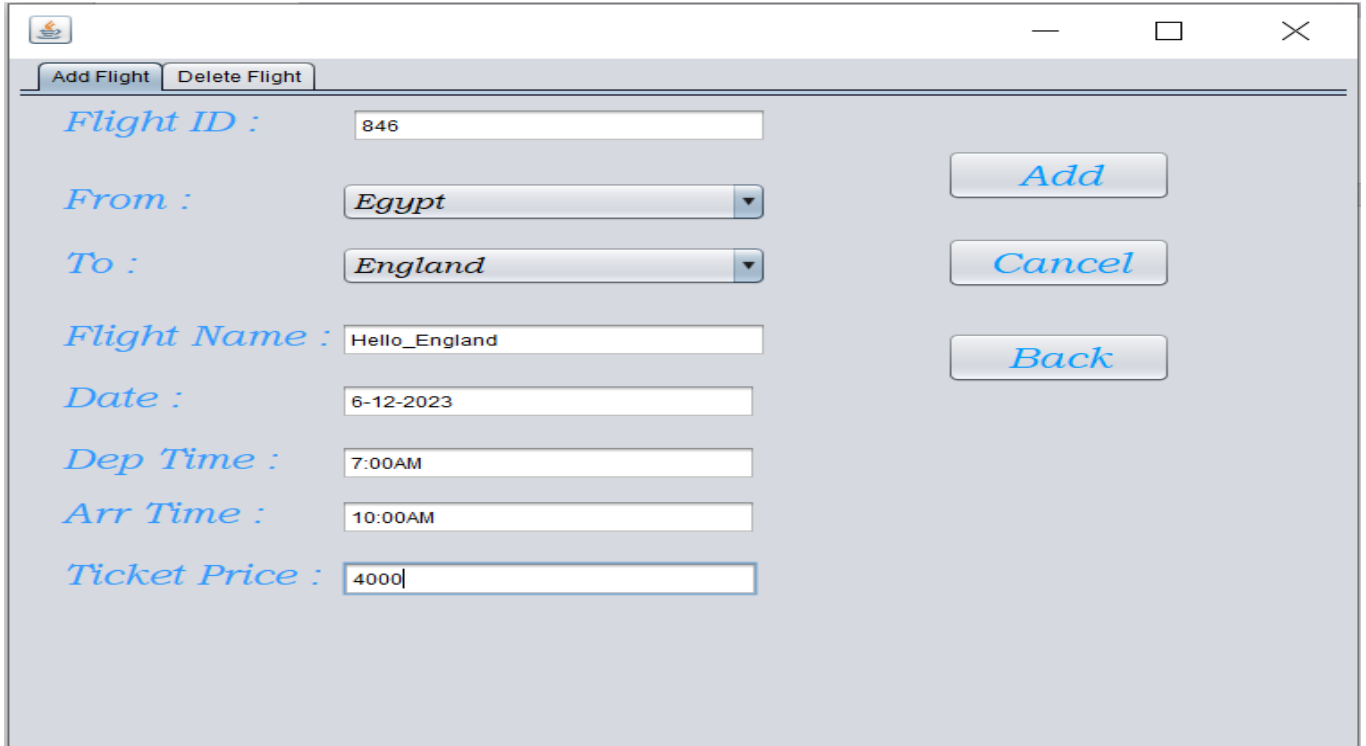
Admin :Clicked OK after entered right password

The screenshot shows the flight management interface after a successful login. The window has a title bar with standard minimize, maximize, and close buttons. Below the title bar, there are two tabs: "Add Flight" (selected) and "Delete Flight". The main content area contains several input fields and buttons:

- Flight ID :** A text input field.
- From :** A dropdown menu with "Egypt" selected.
- To :** A dropdown menu with "Egypt" selected.
- Flight Name :** A text input field.
- Date :** A text input field.
- Dep Time :** A text input field.
- Arr Time :** A text input field.
- Ticket Price :** A text input field.

On the right side of the form, there are three buttons: "Add", "Cancel", and "Back".

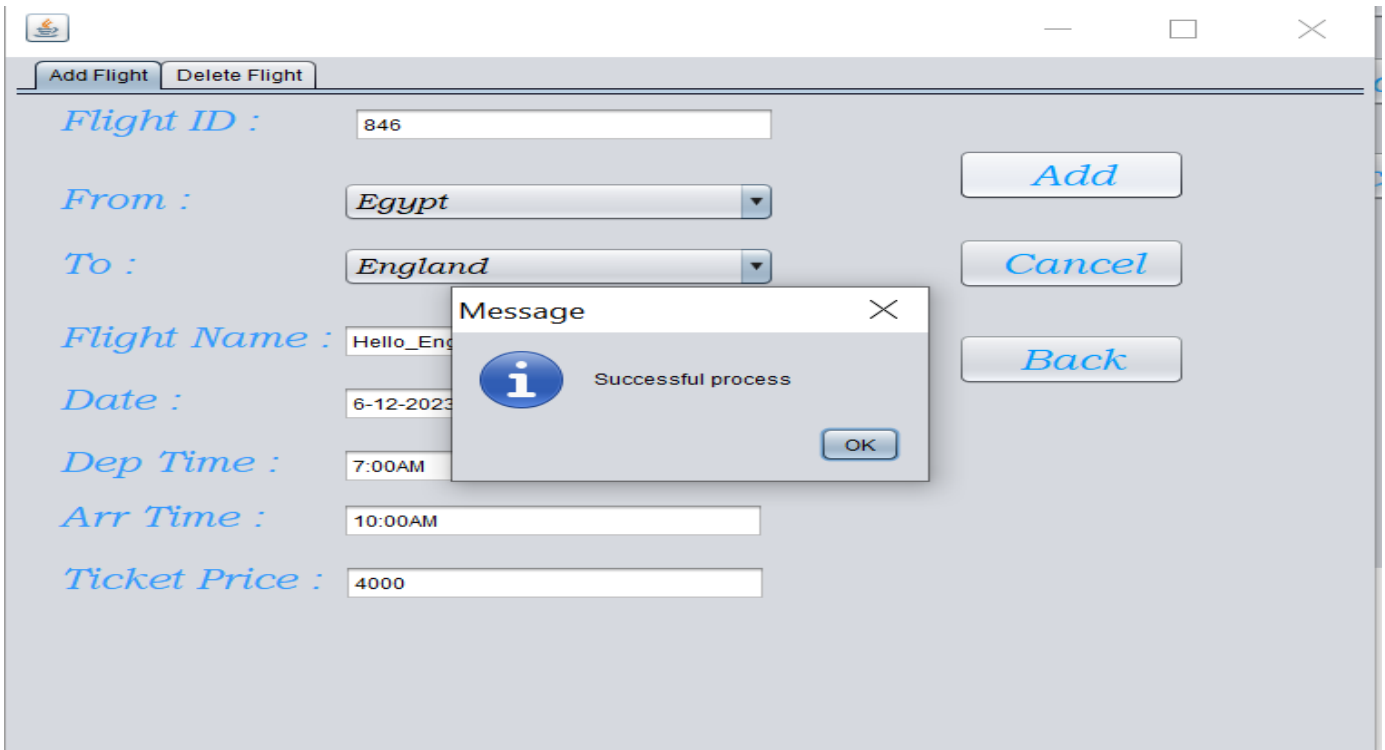
Admin :Add Flight



The screenshot shows a web application window titled "Add Flight" with a "Delete Flight" tab. The form contains the following fields and buttons:

- Flight ID :** Text input field containing "846".
- From :** Dropdown menu showing "Egypt".
- To :** Dropdown menu showing "England".
- Flight Name :** Text input field containing "Hello_England".
- Date :** Text input field containing "6-12-2023".
- Dep Time :** Text input field containing "7:00AM".
- Arr Time :** Text input field containing "10:00AM".
- Ticket Price :** Text input field containing "4000".
- Buttons:** "Add", "Cancel", and "Back" buttons are located on the right side of the form.

Admin : Add Flight : Clicked Add



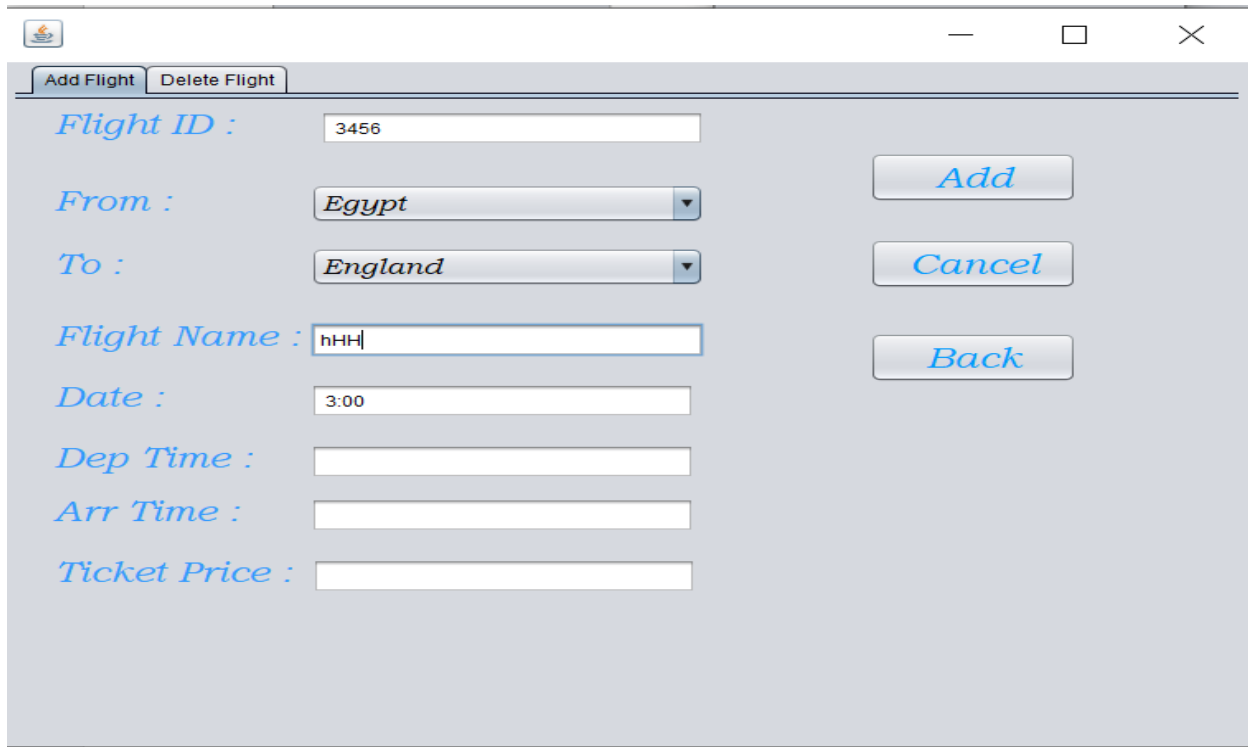
This screenshot shows the same "Add Flight" form as the previous one, but with a "Message" dialog box displayed in the center. The dialog box contains an information icon, the text "Successful process", and an "OK" button. The form fields and buttons remain visible in the background.

Message

Successful process

OK

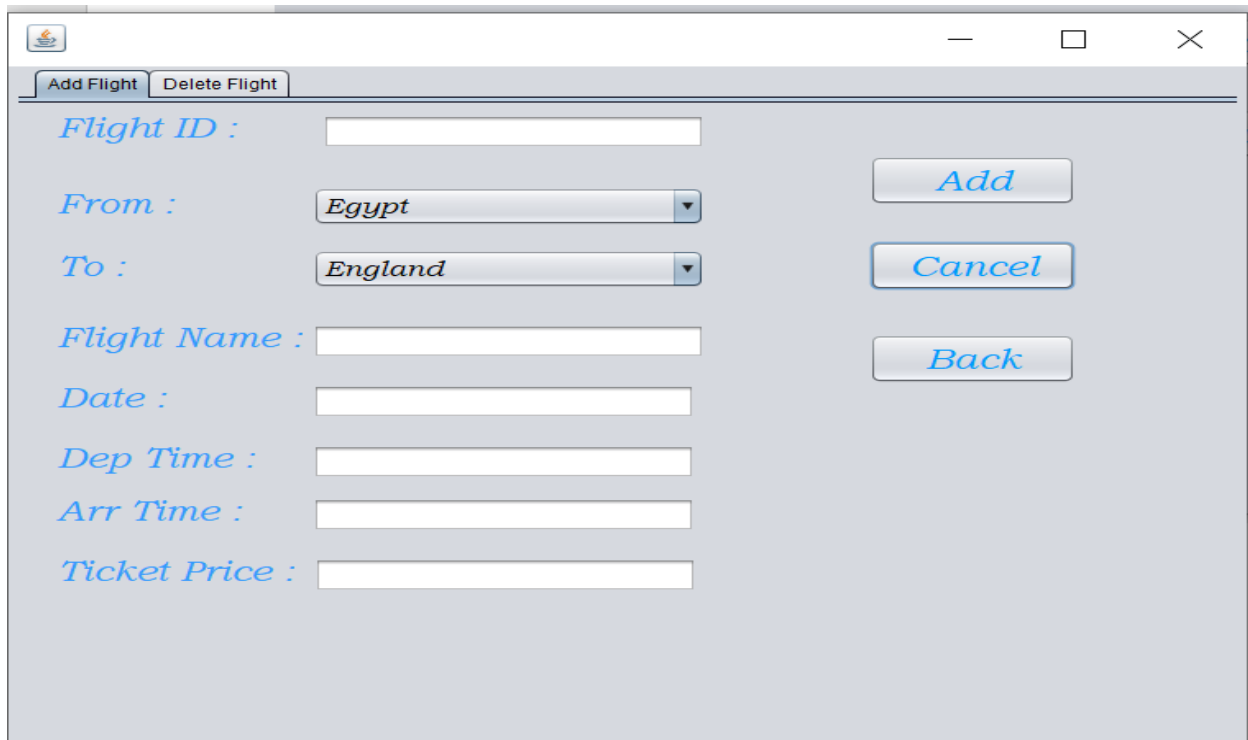
Admin : Add Flight : Clicked Cancel



The screenshot shows a web application window titled "Add Flight" with a "Delete Flight" tab. The form contains the following fields and buttons:

- Flight ID :** Text input field containing "3456".
- From :** Dropdown menu showing "Egypt".
- To :** Dropdown menu showing "England".
- Flight Name :** Text input field containing "hHH".
- Date :** Text input field containing "3:00".
- Dep Time :** Text input field (empty).
- Arr Time :** Text input field (empty).
- Ticket Price :** Text input field (empty).
- Buttons:** "Add", "Cancel", and "Back" buttons are visible on the right side.

Before Clicked Cancel



The screenshot shows the same "Add Flight" form as above, but with the following differences:

- Flight ID :** Text input field is empty.
- From :** Dropdown menu showing "Egypt".
- To :** Dropdown menu showing "England".
- Flight Name :** Text input field is empty.
- Date :** Text input field is empty.
- Dep Time :** Text input field is empty.
- Arr Time :** Text input field is empty.
- Ticket Price :** Text input field is empty.
- Buttons:** "Add", "Cancel", and "Back" buttons are visible on the right side.

After Clicked Cancel

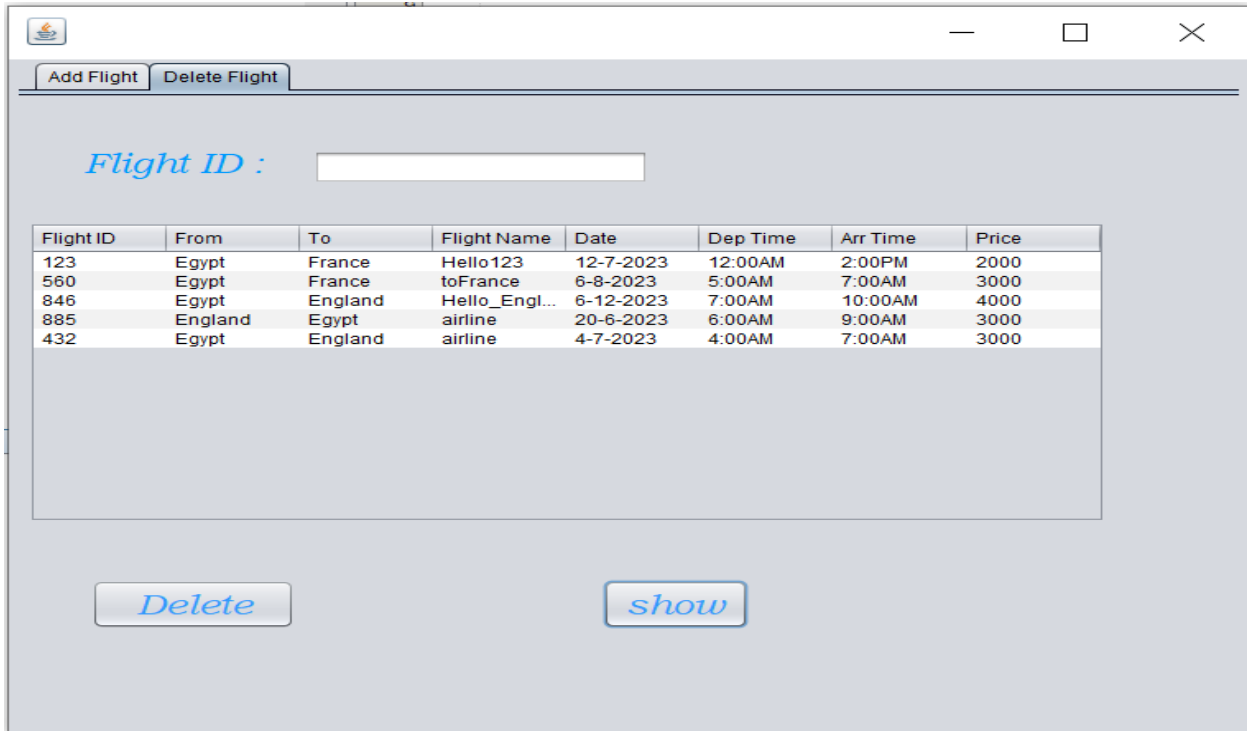
Admin : Add Flight : Clicked Back



Admin : Delete Flight

A screenshot of a web application window titled "Admin : Delete Flight". The window has a standard Windows-style title bar with minimize, maximize, and close buttons. Below the title bar, there are two tabs: "Add Flight" and "Delete Flight", with the "Delete Flight" tab currently selected. The main content area has a light gray background. At the top, the text "Flight ID :" is displayed in a blue, italicized serif font, followed by a white rectangular input field. Below this is a table with eight columns: "Flight ID", "From", "To", "Flight Name", "Date", "Dep Time", "Arr Time", and "Price". The table is currently empty. At the bottom of the window, there are two light blue rectangular buttons with rounded corners. The left button is labeled "Delete" and the right button is labeled "show", both in a blue, italicized serif font.

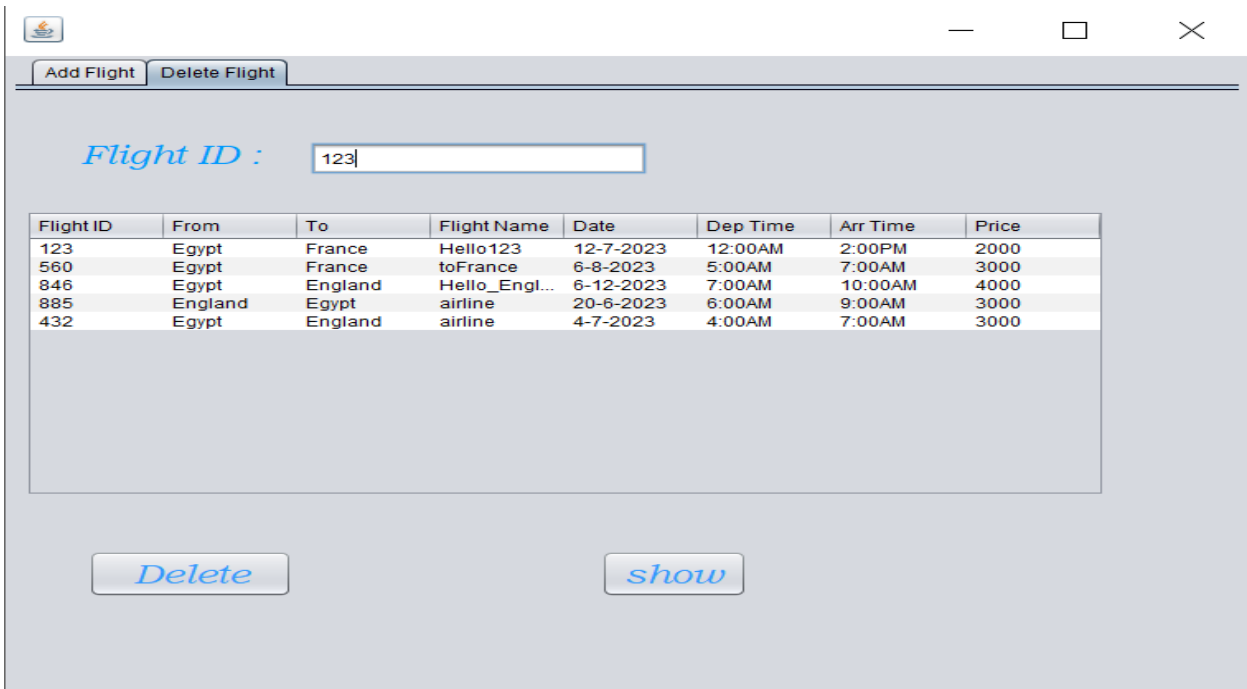
Admin : Delete Flight : Clicked Show



The screenshot shows a window titled "Delete Flight" with a tab labeled "Delete Flight". Below the tab, there is a label "Flight ID :" followed by an empty text input field. Below the input field is a table with 8 columns: Flight ID, From, To, Flight Name, Date, Dep Time, Arr Time, and Price. The table contains 5 rows of flight data. Below the table, there are two buttons: "Delete" and "show". The "show" button is highlighted, indicating it has been clicked.


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	toFrance	6-8-2023	5:00AM	7:00AM	3000
846	Egypt	England	Hello_Engl...	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

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



The screenshot shows the same "Delete Flight" window, but now the "Flight ID :" input field contains the value "123". The "Delete" button is highlighted, indicating it has been clicked. The table and other elements remain the same as in the previous screenshot.

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	toFrance	6-8-2023	5:00AM	7:00AM	3000
846	Egypt	England	Hello_Engl...	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




Add Flight

Delete Flight

Flight ID :

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	toFrance	6-8-2023	5:00AM	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

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Ln 1, Col 1

100%

Windows (CRLF)

