Project Title: Airline Reservation System

Project Functionalities with Description:

• Functions Provided:

- 1) New User Signup
- 2) User Login
- 3) Flight Searching
- 4) Ticket Booking
- 5) Ticket Cancellation
- 6) Print Booked Tickets
- ❖ In this Project we are providing facility for searching Flights available from Different source and Destination. In which , System looks for suitable flights in Previously inserted database and displays table with relative Flight numbers and their Departure times .
- For Ticket booking, User can provide Date of Journey and can choose flight with most suitable timing.
- ❖ We are also allowing user to create Account in system, so that one can Login with secure password and can perform multiple tasks like ,
 - i. Print all Previously booked Tickets from that account
 - ii. Cancel Any Ticket with its Unique Number
 - iii. User can also book Multiple Tickets from same account at a time, just have to Provide details of each Passenger (Name, Age, Contact Number)
- ❖ And Instead of Searching for flight with Source and Destination , User can also book Tickets Directly with Flight Number .
- Once Tickets are booked all its relevant data is stored in file with passenger's and Flight's relevant data.
- While Cancellation, we have to provide username and password of account from which ticket was booked. And they are being compared with user data stored along with ticket Details.
- So , it makes system more secured and reliable

***** Code Implementation :

➤ Here are some Previously inserted Flight Schedules in Flight.txt File (Source Destination Departure Time Flight Number)



```
Ahemdabad
          Surat
                                         20:00
                                                        21645
          Mumbai
                         Delhi
                                        02:00
                                                        21584
          Mumbai
                         Delhi
                                        11:00
                                                        36254
          Mumbai
                         Delhi
                                        15:00
                                                        84587
          Gandhinagar
                         Delhi
                                        08:00
                                                        21352
          Gandhinagar
                         Delhi
                                         12:30
                                                        21768
          Gandhinagar
                         Delhi
                                         16:45
                                                        50305
          Gandhinagar
                         Delhi
                                         23:15
                                                        30215
          Mumbai
                         Ahemdabad
                                        07:30
                                                        90351
          Mumbai
                         Ahemdabad
                                         11:45
                                                        40352
First, w Mumbai
                         Ahemdabad
                                                                              hows List of
                                        19:15
                                                        41524
          Ahemdabad
                         Delhi
                                         08:45
                                                        23152
  all Ava Ahemdabad
                                                                              lestination it
                         Delhi
                                         14:30
                                                        23842
          Ahemdabad
                         Delhi
                                         19:00
                                                        71543
  shows
                               *************
                               Enter Location from Where you want to board Flight :: mumbai
  Enter Destination of your journey :: surat
                     Sorry..There are no Flights available from mumbai to surat
```

14:30

84675

Ahemdabad

Surat

```
Microsoft Windows [Version 10.0.22000.318]
(c) Microsoft Corporation. All rights reserved
E:\College\Documents\00P\Innovative\lastinnovative>java DemoFlight
                                       Enter Your Choice :: 1
     Enter Location from Where you want to board Flight :: Mumbai
     Enter Destination of your journey :: Delhi
                            Mumbai
Mumbai
Mumbai
                                        Delhi
Delhi
Delhi
                                                   21584
36254
84587
                                                               02:00
11:00
15:00
                            ************************
                                       **********
                                       Enter Your Choice :: |
```

1 : Search Flights *
2 : Cancel Booked Tickets *
3 : Book your Ticket with Flight Number *
4 : Print Booked Tickets *
5 : Exit *

Enter Your Choice ::|

➤ We can also Search Flight with Flight number. Here we are searching for Flight number : 36254

- ➤ After Choosing Flight it gives option of Signup or Login for further Ticket Booking process.
- ➤ For Signup we have entered "User1" as username and "User1@123" as Password (we are using readPassword() method, so entered password is not visible on screen for security purpose)
- ➤ After Signup or Login we have to enter number of tickets we want to book for this flight. And for Date is we Enter wrong date (like 30/2/2022) or date from past (like 25/2/2018) it shows error of Invalid date until user enters valid date.

➤ We are entering details of Two Passengers (David and John) and it shows "Tickets for 2 passengers are booked successfully".

```
Please Provide Passenger's Details Below :

Name : David

Age : 32

Contact Number : 9135436465

Please Provide Passenger's Details Below :

Name : John

Age : 28

Contact Number : 9554321665

Ticket for 2 passengers are Booked Successfully...

**I : Search Flights **

**2 : Cancel Booked Tickets **

**3 : Book your Ticket with Flight Number **

**5 : Pait Booked Tickets **

**5 : Pait Stooked Tickets **

**5 : Pait Stooked Tickets **

**5 : Pait Stooked Tickets **

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```

➤ Then we are searching flight from Ahemdabad to Delhi and booking Ticket by Sign up in another Account.

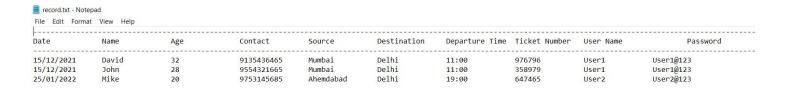
- ➤ For new Account we have kept username as "User2" and first entering password "User2@123" and for confirm password entering different password than that several times. So it gives error "You have to Enter Confirm Password again: ".
- ➤ And after entering correct confirm password we are booking one Ticket of Mike in Flight number : 71543 on 25/01/2022

In UserDetails.txt file Both new Accounts are added along with their



passwords.

➤ In record.txt file data of all three Tickets are added along with user name and password of account from where it was booked.



- ➤ After that on main menu, we are printing booked tickets. For that we have to Login to account from where Tickets were booked. Where If we enter wrong Password on first attempt it shows Error: "You Have entered INCORRECT Password.." and asks user to enter correct password.
- ➤ After Successfully Log in it shows Tickets of David and John which were booked from account of User1.

```
* 1 : Search Flights
* 2 : Cancel Booked Tickets
* 3 : Book your Ticket with Flight Number *
* 4 : Print Booked Tickets
* 5 : Exit
* 5 : Exit
* 7 : Fixed Number: 976796
* Name: David Age: 32 Contact Number: 91354321665
* Ticket Number: 358979
* Name: John Age: 28 Contact Number: 9554321665
* Date: 15/12/2021 Time: 11:88
* Source: Mumbai Destination: Delhi
```

➤ After Successfully Log in it shows Tickets of David and John which were booked from account of User1.

```
* 1: Search Flights *
* 2: Cancel Booked Tickets *
* 3: Book your Ticket with Flight Number *
* 4: Print Booked Tickets *
* 5: Exit *
* 5: Exit *
* 5: Exit *
* 7: Search Flight Number *
* 4: Print Booked Tickets *
* 5: Exit *
* 6: Exit *
* 7: Search Flight Number *
* 6: Exit *
* 7: Search Flight Number *
* 8: Search Flight Number *
* 9: Search Flight Number *
* 9:
```

- ➤ In login , if anyone enteres new user name it shows : "You have to Sign up first, User name doesn't exist..".
- ➤ And for Cancellation we have to simply login into account from where Ticket was booked and Enter Ticket number (can get by printing ticket).

```
* 1 : Search Flights
* 2 : Cancel Booked Tickets
* 3 : Soak your Ticket with Flight Number
* 4 : Print Booked Tickets
* 1 : Search Flights
* 5 : Exit
* 5 : Exit
* 7 : Search Flights
* 1 : Search Flights
* 1 : Search Flights
* 2 : Cancel Booked Tickets
* 3 : Book your Ticket with Flight Number
* 1 : Search Flights
* 2 : Cancel Booked Tickets
* 3 : Book your Ticket with Flight Number
* 4 : Print Booked Tickets
* 5 : Exit
* 5 : Exit
* 6 : Search Flights
* 7 : Search Flights
* 8 : Search Flights
* 9 : Cancel Booked Tickets
* 1 : Search Flights
* 1 : Search Flights
* 2 : Cancel Booked Tickets
* 3 : Book your Ticket with Flight Number
* 4 : Print Booked Tickets
* 5 : Exit
* 6 : Search Flights
* 7 : Search Flights
* 8 : Search Flights
* 9 : Search Flights
* 1 : Search Flights
* 2 : Cancel Booked Tickets
* 3 : Book your Ticket with Flight Number
* 4 : Print Booked Tickets
* 5 : Exit
* 6 : Search Flights
* 7 : Search Flights
* 8 : Search Flights
* 9 : Search Flights
* 1 : Search Flights
* 2 : Cancel Booked Tickets
* 3 : Book your Ticket with Flight Number
* 4 : Print Booked Tickets
* 5 : Exit
* 7 : Search Flights
* 8 : Search Flights
* 8 : Search Flights
* 9 : Search Flights
* 1 : Search Flights
* 9 : Search Flights
* 1 : Search Flights
* 2 : Cancel Booked Tickets
* 3 : Search Flights
* 2 : Cancel Booked Tickets
* 3 : Search Flights
* 2 : Cancel Booked Tickets
* 3 : Search Flights
* 1 : Search Flights
* 2 : Cancel Booked Tickets
* 3 : Search Flights
* 3 : Search Flights
* 3 : Search Flights
* 4 : Search F
```

➤ If user Enters Invalid ticket number it shows : "You have Entered INVALID Ticket number..".

➤ After Successful cancellation of ticket, its data will be removed from record.txt file.

record.txt - Notepad File Edit Format View Help Departure Time Ticket Number User Name Date Contact Destination Name Source Password 15/12/2021 25/01/2022 Delhi David 32 9135436465 Mumbai 11:00 976796 User1 User1@123 Ahemdabad Mike 20 9753145685 Delhi 19:00 647465 User2 User2@123