**OOP (2CS302) Innovative assignment**

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**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 ,

1. Print all Previously booked Tickets from that account
2. Cancel Any Ticket with its Unique Number
3. 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

**Project Code:**

1. **Login.java :**

package pack; //defines class in package "pack"

import java.io.\*;

import java.util.\*;

public class Login{

private String Username = new String(); //String object to store User Name

private String Password = new String(); //String object to store Password

Console c=System.console(); //new object of console to take password from user on console

public void print\_Tickets() //method to print all tickets booked from particular account

{

String str = login();

if(!str.equals("USERNAME CAN'T FOUND")){

String user[] = str.split(" ");

String s[] = new String[10];

try {

boolean flag=false;

String line=new String();

Scanner sc=new Scanner(new File("record.txt"));

line = sc.nextLine();

line = sc.nextLine();

line = sc.nextLine();

while(sc.hasNextLine()) {

line = sc.nextLine();

line = line.replaceAll("\\s+", " ");

s = line.split(" ");

if (s.length>5 && s[8].equals(user[0]) && s[9].equals(user[1])) { //prints ticket if user entered username and password matches with ticket

System.out.println("\n\n\t\t\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("\t\t\t\t\t\*\tTicket Number : "+s[7]+"\t\t\t\t\t\t\t\*");

System.out.println("\t\t\t\t\t\*\tName : "+s[1]+"\t\tAge : "+s[2]+"\tContact Number : "+s[3]+"\t\*");

System.out.println("\t\t\t\t\t\*\tDate : "+s[0]+"\tTime : "+s[6]+"\t\t\t\t\t\*");

System.out.println("\t\t\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("\t\t\t\t\t\*\tSource : "+s[4]+"\t\tDestination : "+s[5]+"\t\t\t\t\*");

System.out.println("\t\t\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

}

}

} catch (FileNotFoundException e) { //catches exception of FileNotFoundExcception class

e.printStackTrace();

}

}

else{

System.out.println("\n\tUser Name doesn't exist..");

return;

}

}

public String signup(){ //method to create new account with Username and password

Scanner sc=new Scanner(System.in);

System.out.print("\n\tUser Name :: ");

Username=sc.next();

System.out.print("\n\tSet Your Password :: ");

char pass1[]=c.readPassword(); //password is stored with method of console class readPassword() which returns character array, then it is converted to String

Password=String.valueOf(pass1);

char pass2[];String str;

System.out.print("\n\tEnter Confirm Password : ");

pass2=c.readPassword();

str=String.valueOf(pass2);

while(!str.equals(Password)){

System.out.print("\n\tYou have to Enter 'Confirm Password' Again.. : ");

pass2=c.readPassword();

str=String.valueOf(pass2);

}

try {

FileWriter fp=new FileWriter("UserDetails.txt",true);

fp.write(Username+" "+Password+"\n"); //User name and password of new account are added in UserDetails text file

fp.close();

} catch (IOException e) {

System.out.println("Can't Open File from Directory");

e.printStackTrace();

}

System.out.println("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("\t\t\tYou Have Successfully Signed up");

System.out.println("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("");

return Username+" "+str; //returns String containing Username and password

}

public String login(){ //method to login with already existing user

Scanner sc=new Scanner(System.in);

boolean flag=false;

String line=new String();

System.out.print("\n\tUser-Name : ");

Username=sc.next();

String str=new String();

File fp=new File("UserDetails.txt");

try {

sc=new Scanner(fp);

while(sc.hasNextLine()){

line=sc.nextLine();

String s[]=line.split(" ");

if(s[0].equals(Username)){ //searches for user entered username in file and then compares with relevant Password

str=s[1];

flag=true;

}

}

} catch (FileNotFoundException e) {

System.out.println("FILE IS UNABLE TO OPEN");

e.printStackTrace();

}

if(flag){

System.out.print("\n\tPassword : ");

char pass1[]=c.readPassword();

Password=String.valueOf(pass1);

while(!str.equals(Password) && flag) {

System.out.println("\n\tYou Have Entered INCORRECT Password..\n");

System.out.print("\n\tPlease Again Enter Your Password : ");

pass1=c.readPassword();

Password=String.valueOf(pass1);

}

System.out.println("\n\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("\t\t\tYou Have Successfully Logged in");

System.out.println("\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

return Username+" "+String.valueOf(pass1);

}

else{

System.out.println("\n\tYou Have to Sign up First ..");

return "USERNAME CAN'T FOUND"; //returns "USERNAME CAN'T FOUND" String if Username doesn't found in list

}

}

public String menu(){ //method to Show menu for Sign up and Login and take User's choice

boolean flag=true;

String output=new String();

output="EMPTY";

Scanner scanner=new Scanner(System.in);

while(flag){

System.out.println("\t\t\t\t\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("\t\t\t\t\t\t\t\* 1 : Sign up \*");

System.out.println("\t\t\t\t\t\t\t\* 2 : Login \*");

System.out.println("\t\t\t\t\t\t\t\* 3 : Go To Previous menu \*");

System.out.print("\t\t\t\t\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n\t\t\t\t\t\t\tEnter Your Choice :: ");

int a = scanner.nextInt();

if (a == 1){

output=signup();

flag=false;

}

else if(a == 2)

{

output=login();

if(output.equals("USERNAME CAN'T FOUND")){

//do nothing

}

else{

flag=false;

}

}

else{

break;

}

}

return output;

}

}

1. **FileHandling.java :**

package pack; //defines class in package "pack"

import java.io.\*;

import java.util.\*;

public class FileHandling{

public void starter(){ //adds Title row at start if it is not there in Passenger record file

Scanner sc=null;

String first="------------------------------------------------------------------------------------------------------------------------------------------------------------------";

String second="DATE\t\tNAME\t\tAGE\t\tCONTACT\t\tSRC\t\tDEST\t\tTIME\t\tTICKETNUMBER\tUSERNAME\tPASSWORD";

String third="------------------------------------------------------------------------------------------------------------------------------------------------------------------";

boolean flag=false;

String line1,line2,line3;

FileReader f= null;

try {

f = new FileReader("record.txt");

sc=new Scanner(f);

line1=sc.nextLine();line2=sc.nextLine();line3=sc.nextLine();

if(line1.equalsIgnoreCase(first) && line2.equalsIgnoreCase(second) && line3.equalsIgnoreCase(third)){

flag=true;

}

} catch (FileNotFoundException e) {

e.printStackTrace();

}

if(!flag){

try {

FileWriter fp=new FileWriter("record.txt",true);

fp.write("------------------------------------------------------------------------------------------------------------------------------------------------------------------\n");

fp.write("DATE\t\tNAME\t\tAGE\t\tCONTACT\t\tSRC\t\tDEST\t\tTIME\t\tTICKETNUMBER\tUSERNAME\tPASSWORD\n");

fp.write("------------------------------------------------------------------------------------------------------------------------------------------------------------------\n");

fp.close();

} catch (IOException e) {

e.printStackTrace();

}

}

}

public String read (int op,File fp){ //searches for Flight with flight number and returns String containing Source,Destination and Departure time of it,"CAN'T FOUND" String is returned if not found

boolean flag=false;

String p=new String();

try {

String line;

Scanner sc=new Scanner(fp);

while(sc.hasNextLine()){

line=sc.nextLine();

line=line.replaceAll("\\s+"," ");

String s[]=line.split(" ");

if(s[3].equalsIgnoreCase(Integer.toString(op))){

p=s[0]+" "+s[1]+" "+s[2];

flag=true;

break;

}

}

if(!flag){

p="CAN'T FOUND";

}

} catch (FileNotFoundException e) {

e.printStackTrace();

p="CAN'T FOUND";

}

return p;

}

public boolean read(String i,String j,File fp){ //method with boolean return type to check and print Available flights from user entered Source to Destination

try {

boolean flag=false;

String line;

Scanner sc=new Scanner(fp);

System.out.println("\n\n\t\t\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("\t\t\t\t\t\* Source | Destination | Flight Number | Departure Time \*");

System.out.println("\t\t\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

while(sc.hasNextLine()) {

line = sc.nextLine();

line = line.replaceAll("\\s+", " ");

String s[] = line.split(" ");

if (s[0].equalsIgnoreCase(i) && s[1].equalsIgnoreCase(j)) {

flag = true;

System.out.println("\t\t\t\t\t\* "+s[0]+"\t "+s[1]+"\t\t "+s[3]+"\t\t "+s[2]+"\t \*");

}

}

System.out.println("\t\t\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n");

if(!flag){

return false;

}

else{

return true;

}

} catch (FileNotFoundException e) {

e.printStackTrace();

return false;

}

}

public boolean renewrecord(String s,String upd){ //method for finding line(with user entered ticket number and corresponding user-name,password) and delete it

Scanner sc=null;String line,jk;

String str[] = upd.split(" ");

File fp=new File("temp\\temp.txt");

try {

fp.createNewFile();

} catch (IOException e) {

System.out.println("Can't Open Mentioned File");

e.printStackTrace();

}

File read=new File("record.txt");

try {

FileWriter fp2=new FileWriter("temp\\temp.txt");

sc=new Scanner(read);

while(sc.hasNextLine()){

fp2.write(sc.nextLine());

fp2.write("\n");

}

fp2.close();

} catch (IOException e) {

System.out.println("ENABLE TO WRITE IN FILE");

e.printStackTrace();

}

File f=new File("temp\\temp.txt");

boolean flag=false;

try {

FileWriter fnl=new FileWriter("record.txt");

sc=new Scanner(f);

while(sc.hasNextLine()){

line=sc.nextLine();

jk=line.replaceAll("\\s+"," ");

String s1[]=jk.split(" ");

if(s1.length >= 8 && s1[7].equals(s) && s1[8].equals(str[0]) && s1[9].equals(str[1])){

flag=true;

//delete this record

}

else{

fnl.write(line);

fnl.write("\n");

}

}

fnl.close();

} catch (IOException e){

System.out.println("ENABLE TO WRITE IN FILE");

e.printStackTrace();

}

return flag;

}

public void appendinlist(String append){ //to append data of newly booked ticket in record text file

String p;

try {

FileWriter fp=new FileWriter("record.txt",true);

String s[]=append.split(" ");

for(int i=0;i<s.length;i++){

if(i == 7){

Random rand=new Random();

int y= rand.nextInt(999999)+1;

p=Integer.toString(y);

p=String.format("%-16s",p);

fp.write(p);

}

p=String.format("%-16s",s[i]);

fp.write(p);

}

fp.write("\n");

fp.close();

} catch (IOException e) {

e.printStackTrace();

}

}

public String read(String number,File fp){ //searchs for Flight with flight number and returns String containing Source,Destination and Departure time of it,"CAN'T FOUND" String is returned if not found

String output=new String();

try {

boolean flag=false;

String line=new String();

Scanner sc=new Scanner(fp);

while(sc.hasNextLine()) {

line = sc.nextLine();

line = line.replaceAll("\\s+", " ");

String s[] = line.split(" ");

if (s[3].equals(number)) {

flag=true;

output=s[0]+" "+s[1]+" "+s[2];

break;

}

}

if(!flag){

return "CAN'T FOUND";

}

else{

return output;

}

} catch (FileNotFoundException e) {

e.printStackTrace();

return "CAN'T FOUND";

}

}

}

1. **User.java :**

package pack; //defines class in package "pack"

import java.io.\*;

import java.util.\*;

public class User{

Scanner sc=new Scanner(System.in);

String Name; //Class variables to store Passenger's Details

int age;

long contact;

public String EnterDetails(){ //method to scan Passenger's Details from console

String Output=new String();

System.out.print("\n---------------------------------------------");

System.out.print("\nPlease Provide Passenger's Details Below : ");

System.out.print("\n---------------------------------------------");

System.out.print("\n\tName : ");

Name=sc.nextLine();

System.out.print("\n\tAge : ");

age=sc.nextInt();

System.out.print("\n\tContact Number : ");

contact=sc.nextLong();

sc.nextLine();

System.out.print("\n---------------------------------------------");

return Name+" "+Integer.toString(age)+" "+Long.toString(contact); //returns String containing Name, Age and Contact number of Passenger

}

public String DATE() { //method to take input of Date and return in form of String

String d=new String();

boolean flag1 = true;

while (flag1) {

int flag = 0, conf = 0, leap = 0, n = 0;

System.out.print("\n\tEnter Date (DD/MM/YYYY) : ");

d = sc.nextLine();

String str[] = d.split("/");

int a = Integer.parseInt(str[0]);

int b = Integer.parseInt(str[1]);

int c = Integer.parseInt(str[2]);

if ((c % 400 == 0 || c % 4 == 0) && c % 100 != 0) {

leap = 1;

}

if (c >= 2021 && c <= 2030) {

if (b >= 1 && b <= 12) {

conf = 1;

switch (b) {

case 1:

case 3:

case 5:

case 7:

case 8:

case 10:

case 12: {

n = 31;

break;

}

case 4:

case 6:

case 9:

case 11: {

n = 30;

break;

}

case 2: {

if (leap == 1) n = 29;

else n = 28;

break;

}

}

if (a >= 1 && a <= n) flag = 1;

}

}

if (flag == 1 && conf == 1) {

flag1=false;

} else {

System.out.print("\n\nYou have entered Invalid Date..\n"); //Prints Error Message if User enters INVALID date and asks to Insert date again

flag1=true;

}

}

return d;

}

}

1. **DemoFlight.java :**

import pack.User; //imports User class file from package "pack"

import pack.Login; //imports Login class file from package "pack"

import pack.FileHandling; //imports FileHandling class file from package "pack"

import java.io.\*;

import java.util.\*;

public class DemoFlight{

public static void main(String[] args) {

File myfile=new File("Flight.txt"); //File object which points to Flight file in same folder

User U=new User(); //new object of User class to take passenger details and date(with validation) from user

Scanner sc=new Scanner(System.in); //new object of scanner class to take input from console

FileHandling op=new FileHandling(); //new object of FileHandling class to perform all File I/O operations(Read Flight Schedule, append in Passenger Record, etc)

int p,q,r;String upd;

op.starter();

Login T=new Login(); //new object of Login class to perform Sign up and Login Operations

label:while(true){

System.out.println("\n\n");

System.out.println("\t\t\t\t\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("\t\t\t\t\t\t\t\* 1 : Search Flights \*");

System.out.println("\t\t\t\t\t\t\t\* 2 : Cancel Booked Tickets \*");

System.out.println("\t\t\t\t\t\t\t\* 3 : Book your Ticket with Flight Number \*");

System.out.println("\t\t\t\t\t\t\t\* 4 : Print Booked Tickets \*");

System.out.println("\t\t\t\t\t\t\t\* 5 : Exit \*");

System.out.print("\t\t\t\t\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n\t\t\t\t\t\t\tEnter Your Choice :: ");

p=sc.nextInt();

if(p == 1){

System.out.print("\n\tEnter Location from Where you want to board Flight :: ");

String src=sc.next();

System.out.print("\n\tEnter Destination of your journey :: ");

String dest=sc.next();

boolean flag=op.read(src,dest,myfile); //prints all available flights with user inserted Source and Destination and returns true,and false if there are no such flights

if(flag){

System.out.println("\t\t\t\t\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("\t\t\t\t\t\t\t\* 1 : Book Flight from List \*");

System.out.println("\t\t\t\t\t\t\t\* 2 : Go To Previous menu \*");

System.out.print("\t\t\t\t\t\t\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n\n\t\t\t\t\t\t\tEnter Your Choice :: ");

r=sc.nextInt();

if(r == 1){

upd=T.menu();

if(!upd.equals("EMPTY"))

{

System.out.print("\n\tEnter Flight Number : ");

int flightnumber=sc.nextInt();

String confirm=op.read (flightnumber,myfile); //finds Flight details with User entered Flight number, which return "CAN'T FOUND" String if Flight number is Invalid

if(!confirm.equalsIgnoreCase("CAN'T FOUND")){

System.out.print("\n\tEnter Total number of Passengers for Ticket Booking : ");

q = sc.nextInt();

String temp = new String();

if(q>1)temp=q+" passengers are";

else temp=q+" passenger is";

String Date=U.DATE(); //takes Date from user by applying validations

for(int i=1;i<=q;i++){

String kj=U.EnterDetails(); //Takes Passenger Details(Name, Age , Contact number) for Ticket Booking

op.appendinlist(Date+" "+kj+" "+confirm+" "+upd); //Appends data of passengers with confirmed ticket in Passenger record along with Flight Details,User-name and password

}

System.out.println("\n\t\t\t\t\t\t-----------------------------------------------------------");

System.out.println("\t\t\t\t\t\tTicket for "+temp+" Booked Successfully..");

System.out.println("\t\t\t\t\t\t-----------------------------------------------------------");

}

}

else{

System.out.println("\n\tYou Have Entered INVALID Flight Number .."); //prints Error message if user enters flight number out of database

}

}

else{

continue label; //If user wants to go to Previous menu then we can simply continue do..while loop of main menu with label

}

}

else{

System.out.println("\n\t\tSorry..There are no Flights available from "+src+" to "+dest);

}

}

else if(p == 2){

String conf=T.login(); //takes user-name and password and finds in UserDetails text file, "USERNAME CAN'T FOUND" String is returned if User-name not found in file

if(!conf.equals("USERNAME CAN'T FOUND")){

System.out.print("\n\tEnter number of Ticket That You want to Cancel : ");

sc.nextLine();

String delete=sc.nextLine();

boolean flag=op.renewrecord(delete,conf); //finds ticket having user entered number with current user name and password,returns false if not found

if(flag){

System.out.println("\t\t\t\t\t\t-----------------------------------------------------------------");

System.out.println("\t\t\t\t\t\tTicket : "+delete+" is Cancelled Successfully..");

System.out.println("\t\t\t\t\t\t-----------------------------------------------------------------");

}

else{

System.out.println("\n\tYou Have Entered INVALID Ticket number..");

}

}

else{

System.out.println("\n\tUser Name doesn't exist..");

continue label;

}

}

else if(p == 3){

System.out.print("\n\tEnter Flight Number : ");

sc.nextLine();

String flightnumber=sc.nextLine();

String output=op.read(flightnumber,myfile); //finds Flight details with User entered Flight number, which return "CAN'T FOUND" String if Flight number is Invalid

if(!output.equals("CAN'T FOUND")){

upd=T.menu();

if(!upd.equals("EMPTY"))

{

System.out.print("\n\tEnter Total number of Passengers for Ticket Booking : ");

q = sc.nextInt();

String temp = new String();

if(q>1)temp=q+" passengers are";

else temp=q+" passenger is";

String Date=U.DATE(); //takes Date from user by applying validations

for(int i=1;i<=q;i++){

System.out.println("-----------------------------------------------------------");

String kj=U.EnterDetails(); //Takes Passenger Details(Name, Age , Contact number) for Ticket Booking

op.appendinlist(Date+" "+kj+" "+output+" "+upd); //Appends data of passengers with confirmed ticket in Passenger record along with Flight Details,User-name and password

}

System.out.println("\n\t\t\t\t\t\t-----------------------------------------------------------");

System.out.println("\t\t\t\t\t\tTicket for "+temp+" Booked Successfully..");

System.out.println("\t\t\t\t\t\t-----------------------------------------------------------");

}

}

else{

System.out.println("\n\tYou Have Entered INVALID Flight Number ..");

}

}

else if(p == 4){

T.print\_Tickets(); //method to print Previously booked Tickets

}

else{

break;

}

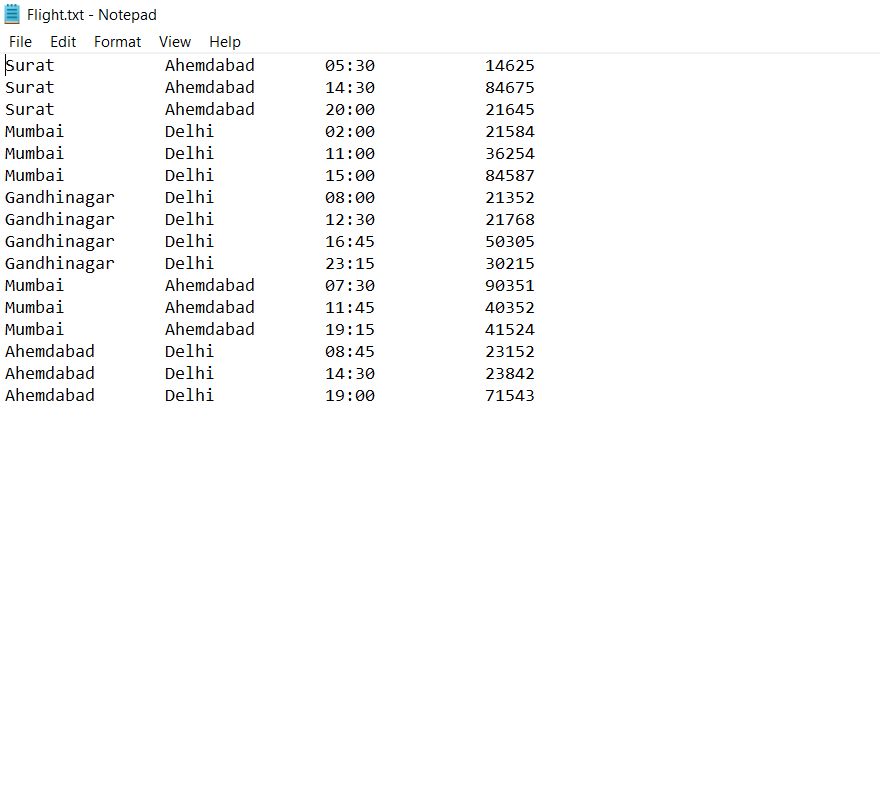
}

}

}

……………..

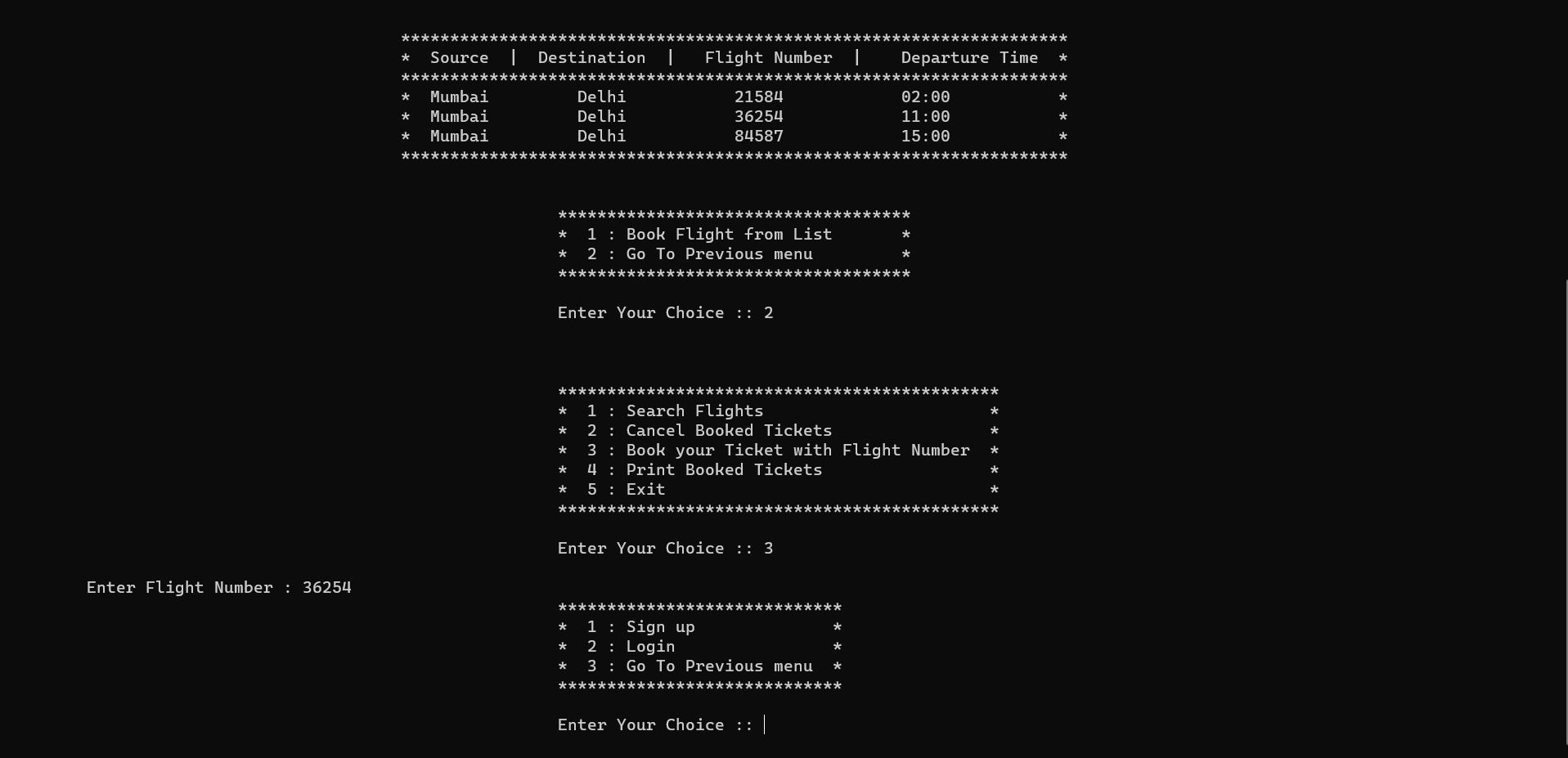
* **Code Implementation :**
* Here are some Previously inserted Flight Schedules in Flight.txt File

 (Source Destination Departure Time Flight Number)

* First, we are searching for Flight from Mumbai to Delhi Which shows List of all Available Flights. and if there are no flights from source to destination it shows ex : “Sorry..There are no flights from mumbai to surat “ .

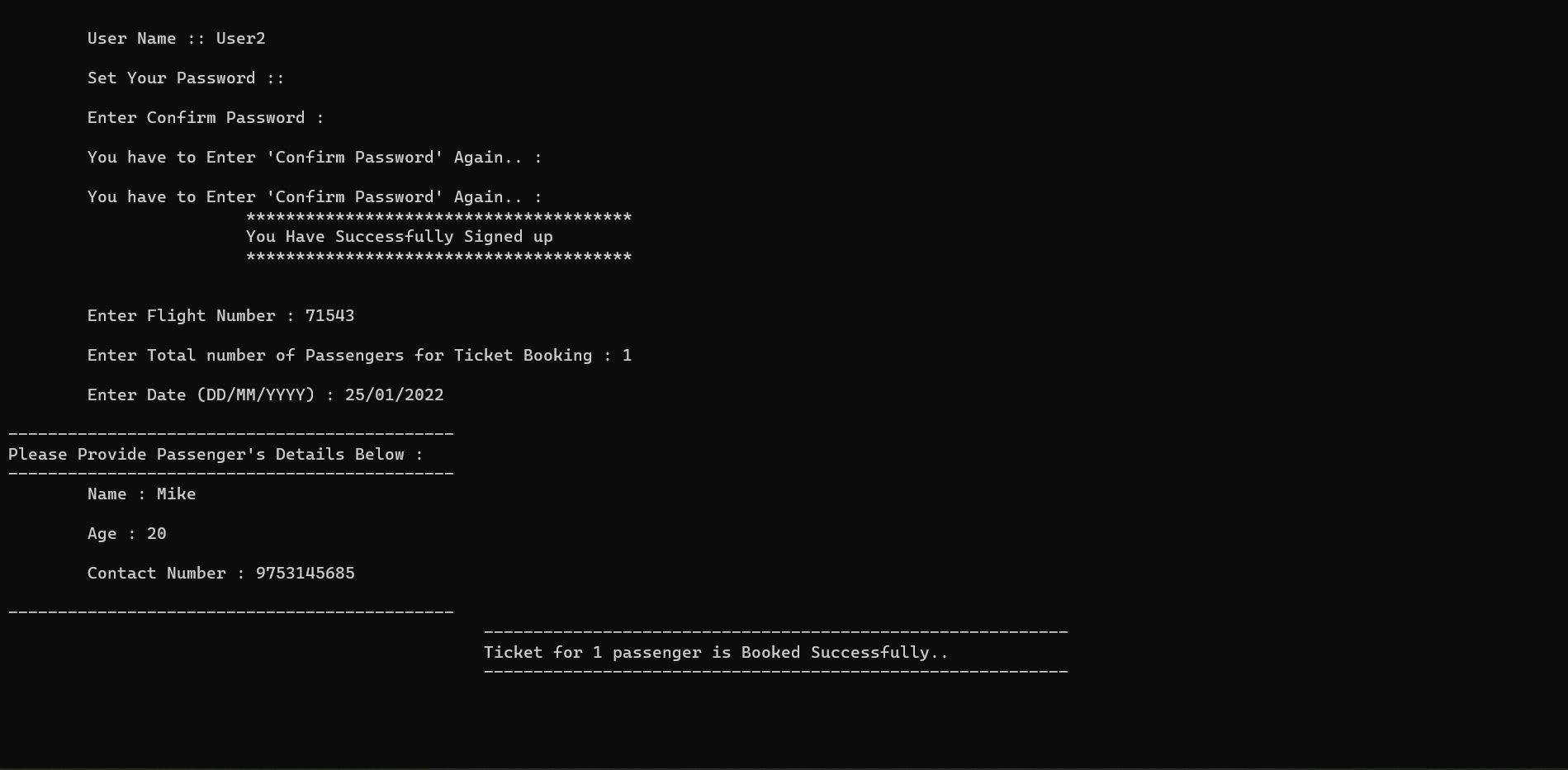
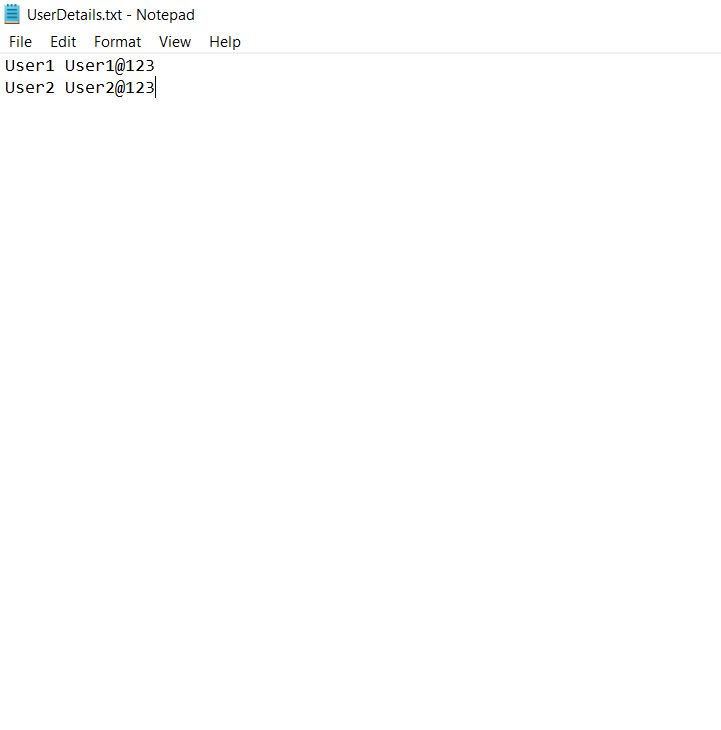
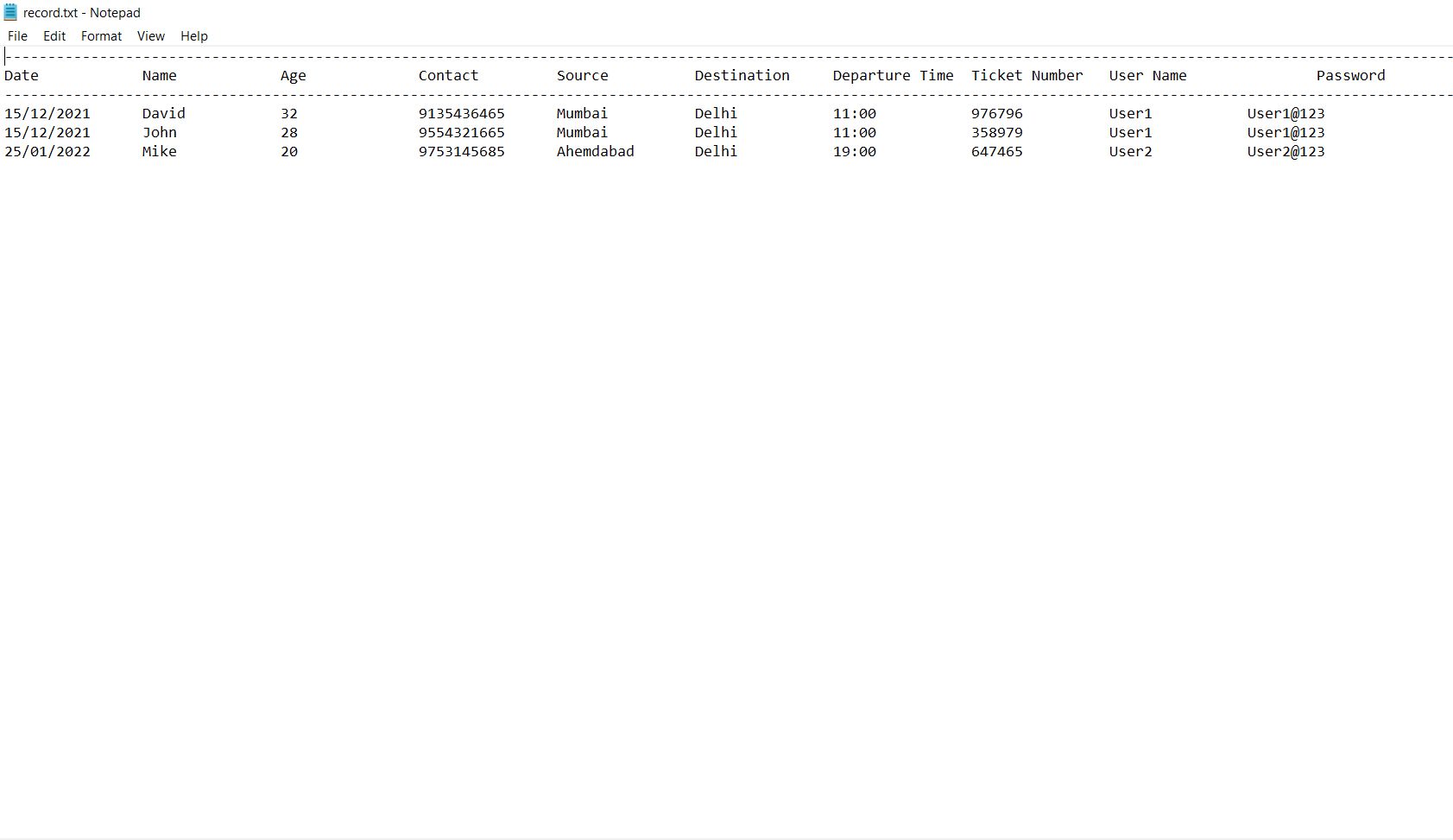


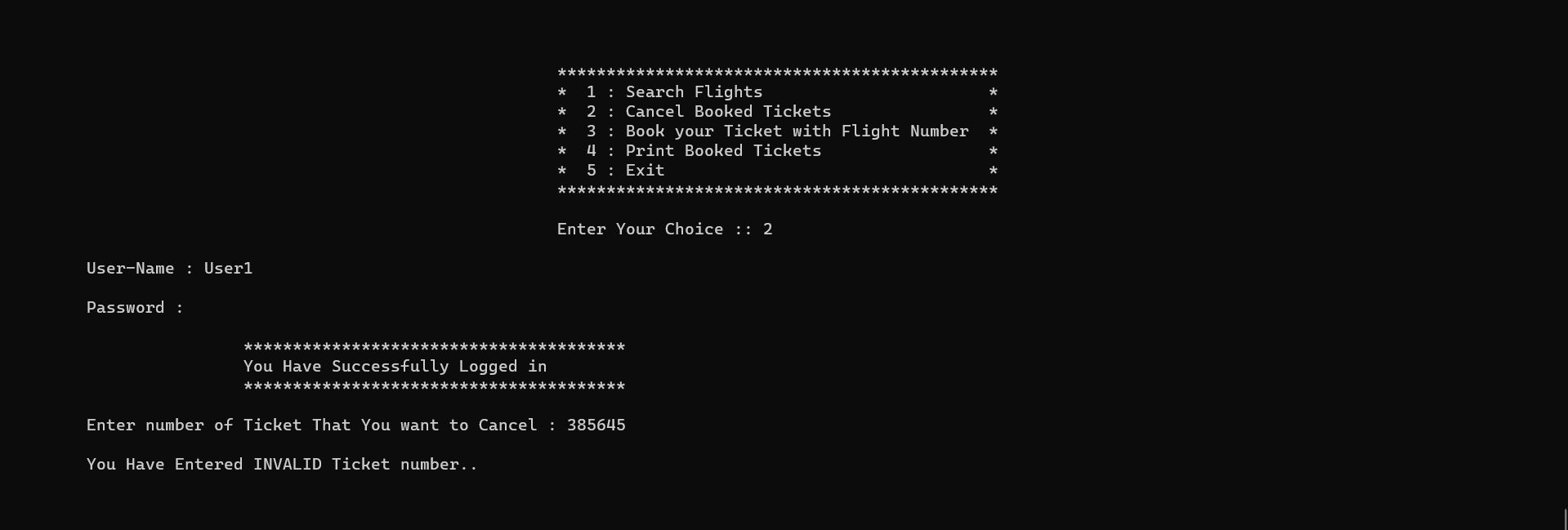
* We can also Search Flight with Flight number. Here we are searching for Flight number : 36254

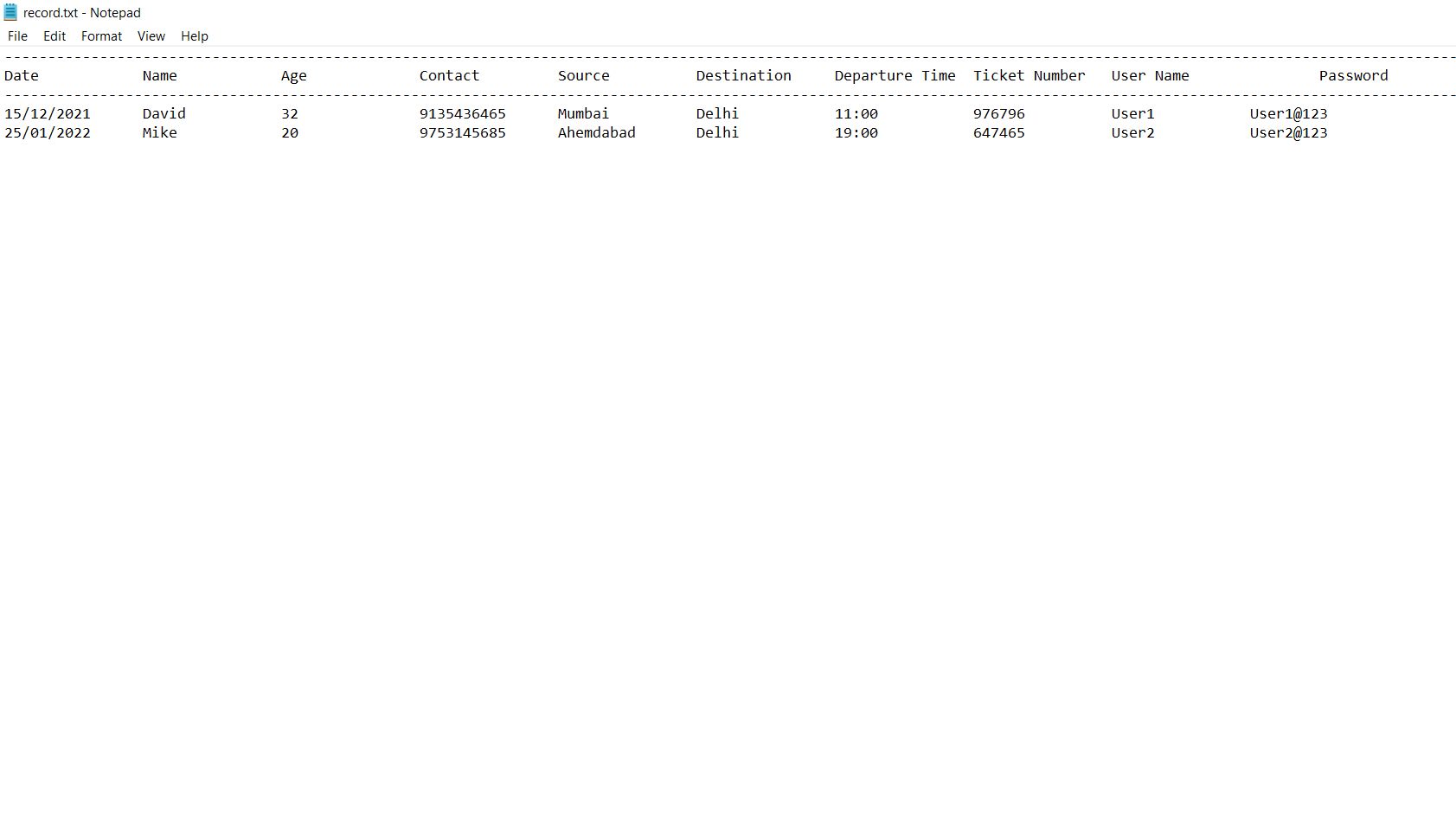


* After Choosing Flight it gives option of Signup or Login for further Ticket Booking process.
* For Signup we have entered “User1” as username and “User1@123” as Password (we are using readPassword() method, so entered password is not visible on screen for security purpose)
* After Signup or Login we 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”.
* 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.
* After Successfully Log in it shows Tickets of David and John which were booked from account of User1.
* 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 ) .
* 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.