Advanced Programming

Object Oriented Programming with Java

Semester project

«Airline reservation system»

JAVA Project

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Project name:

Airline reservation system.

Summary:

The Airline Reservation System project is an implementation of a general Airline Ticketing website like Orbitz, which helps the customers to search the availability and prices of various airline tickets, along with the different packages available with the reservations. This project also covers various features like online registration of the users, modifying the details of the website by the management staff or administrator of the website, by adding, deleting or modifying the customer details, flights or packages information. In general, this website would be designed to perform like any other airline ticketing website available online.

UML Class Diagram — Airline Reservation System

AirlineReservationSystem
- +static void main(String[] args)

creditCard
- - Scanner input
- - double cardNo
- - String cardType
- - String holderName
- - String expiryDate
- - String bankName

- - creditCard()
- + double getCardNo()
- + String getCardType()
- + String getHolderName()
- + String getExpiryDate()
- + String getBankName()

FlightDescriptionScheduled
- - Scanner input
- - HashMap<Integer, FlightDescriptions> mapFlightDescriptions
- - HashMap<Integer, ScheduledFlight> mapScheduledFlight
- - HashMap<Integer, creditCard> mapcreditCard
- - creditCard cc
- - int reservationIDPassenger
- - FlightDescriptions fd
- - ScheduledFlight sf

- + void addFlightDescriptions(int idReservation)
- + void addScheduledFlight(int idReservation)
- + void enterCreditCard(int reservationID)
- + void getCreditCard(int reservationID)
- + void getinforeservation(int reservationID)
- + String getinfoAirLine(int reservationID)
- + String getinfodate(int reservationID)
- + String getinfoform(int reservationID)
- + String getinfoto(int reservationID)
- + void cancelReservation(int reservationID)

FlightDescriptions
- - Scanner input
- + String from
- + String to
- + String Arrival
- + String Departure
- + float Capacity
- + String ClassDegree

- - FlightDescriptions()
- + String getFrom()
- + String getTo()
- + String getArrival()
- + String getDeparture()
- + float getCapacity()
- + String getClassDegree()

logIn
- - Scanner input
- - String userName
- - String pass

- - logIn()
- + void setUserName(String userName)
- + void setPass(String pass)
- + String getUserName()
- + String getPass()

Passenger
- - Scanner input
- + static double allpassengers
- + double numberOfPerson
- + String fristName
- + String lastName
- - personInfo person

- - Passenger(personInfo person, double numberOfPerson)
- + void passengerInfo()
- + String toString()

airlines
- - Scanner input
- - int pass
- - String cost
- - String durationTime
- - String airline
- - String time

- + void admin()
- + void airline1()
- + void airline2()
- + void airline3()
- + String getAirline()
- + String getCost()
- + String getDurationTime()
- + String getTime()
- + void setCost(String cost)
- + void setDurationTime(String durationTime)
- + void setAirline(String airline)
- + void setTime(String time)

ScheduledFlight
- - Scanner input
- - FlightDescriptions FD
- - String t
- - airlines al
- - int x
- - String cost
- - String durationTime
- - String airline
- - String time

- - ScheduledFlight(FlightDescriptions FD)
- + void admin()
- + void ChooseAirline()
- + void infoFlightPassenger()
- + String getCost()
- + String getDurationTime()
- + String getAirline()
- + String getTime()

Ticket
- - Scanner input
- - int keyNo
- - int reservationID
- - String fullName
- - String from
- - String to
- - String date
- - String airline

- - Ticket(int id)
- + void setReservationID(int reservationID)
- + void setFullName(String fullName)
- + void setFrom(String from)
- + void setTo(String to)
- + void setDate(String date)
- + void setAirline(String airline)
- + int getReservationID()
- + String getFullName()
- + String getFrom()
- + String getTo()
- + String getDate()
- + String getAirline()

personInfo
- - Scanner input
- - String fristName
- - String lastName
- - String address
- - String email
- - String BirthDate
- - String gender
- - double phoneNum
- - boolean dingresDesise

- + personInfo()
- + String toString()
- + String getFristName()
- + String getLastName()
- + String getAddress()
- + String getEmail()
- + String getBirthDate()
- + double getPhoneNum()
- + boolean isDingresDesise()
- + String getGender()

Reservations
- - Scanner input
- - int noOfTicket
- - HashMap<Integer, Ticket> mapticket
- - Ticket t
- - PassengersReservation pr
- - int reservationIDPassenger
- - FlightDescriptionScheduled fr

- + int quickReservation()
- + void getinfromationperson(int key)
- + int getinfromationreservation(int key, int reservationIDPassenger, int noOfTicket)
- + int cancelReservation(int reservationIDPassenger, int noOfTicket)
- + int CreateAccount()
- + void login()
- + int addReservation()
- + void ticket(int reservationIDPassenger)
- + int getTicket(int noOfTicket)
- + int cancelTicket(int noOfTicket)

PassengersReservation
- - Scanner input
- - HashMap<Integer, personInfo> mapPersonInfo
- - HashMap<Integer, Passenger> mapPassenger
- - HashMap<logIn, Integer> maplog
- - int i
- - int reservationID
- - int key
- - personInfo person
- - Passenger passengers

- + void deleteUser()
- + int creatAcount()
- + int logIn()
- + int addperson(int i)
- + int addpassenger()
- + void setReservationID(int reservationID)
- + void setKey(int key)
- + int getReservationID()
- + int getKey()
- + int personinfo(int key)
- + String fullName(int reservationID)
- + int pasengerinfo(int key, int reservationID)
- + Boolean cheack(int reservationID)
- + void cancelPassenger(int reservationIDPassenger)