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Airline Reservation System in Java

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INTRODUCTION

Airline reservation system contains details about, flight schedules and its fare tariffs, passenger reservations and ticket records. An airline's inventory contains all flights with their available seats.

ARS is a computerized system to store and receiver information and conduct transactions related to air travel.

The goal of this project on Airline Reservation System is to automate the airline registration procedure. The system includes information such as flight types, reservation list of available seats and facility to send unaccompanied baggage.

TOOLS USED

Java is a high-level, class-based, object-oriented programming language. It is a general-purpose programming language intended to let programmers write once, run anywhere (WORA).

NetBeans IDE is a free and open source integrated development environment for **application development on Windows, Mac, Linux, and Solaris operating systems**. The IDE simplifies the development of web, enterprise, desktop, and mobile applications that use the Java and HTML5 platforms

OUR PROJECT

The program is an Airline Reservation System written in Java. It allows users to perform various actions related to flight reservations such as viewing flight types, reserving seats and sending unaccompanied baggage.

The program is composed of several classes:

AirlineReservationSystem class: This is the main class and contains the main method. It is responsible for managing the entire reservation system. It contains several methods such as addFlight(), displayFlightTypes(), displayPrices(), and reserveSeat(). These methods allow users to view flight details, reserve seats, and manage reservations.

Display flight types: This class is responsible for displaying information about different flight types, such as domestic, international, direct, and connecting flights. It retrieves data about the flights from a database and formats it for display to the user. This class may also handle filtering and sorting of flights based on various criteria, such as price, types of flight and seats available.

OUR PROJECT

Send unaccompanied baggage: This class is responsible for processing requests to send unaccompanied baggage, which refers to luggage or packages that are shipped separately from the passenger's own luggage. This could be for a variety of reasons, such as excess baggage or for items that cannot be carried on the plane. This class may interact with a shipping or courier service to arrange for the pickup, transportation, and delivery of the baggage, and may also handle any necessary paperwork or documentation.

Reserve a class: This class is responsible for managing the reservation of seats on flights for passengers. It interacts with a database or other data source to retrieve information about available flights, seat availability, and pricing. It also handles user authentication and payment processing to confirm the reservation. This class may also send notifications to the airline and the passenger with details about the reservation, such as the flight number, seat assignment, and departure time.

The program starts by creating an instance of the AirlineReservationSystem class and adding several flights to it. The main method then prompts the user to enter a username and password. If the password is correct, the program enters a loop where the user can select various options such as viewing flight types, reserving seats, and sending unaccompanied baggage.

OUR PROJECT

When the user selects the option to reserve a seat, the program prompts the user to enter their name, age, and the number of seats they want to reserve. It then prompts the user to select a flight type and asks if they want to add a meal. Finally, it calculates the total cost of the reservation and displays it to the user.

When the user selects the option to send unaccompanied baggage, the program prompts the user to enter the number of luggage and the total weight of the luggage. It then prompts the user to select the duration of the journey and calculates the total cost of sending the luggage

Overall, the program provides a basic implementation of an airline reservation system and allows users to perform various actions related to flight reservations.

SCOPE OF ARS

ARS software is developed by many custom software development companies and then integrated into the website.

The client puts forth their requisites and the development team produces software catering to their needs. It helps the customers and on the other, it also makes the life of the airline service companies easier by keeping all the records of the passengers and if there is any change in the fight due to some reason, the passengers are promptly informed.

This system can also used by companies to keep track of user preferences of regular travelers so that they can provide better service and give offers to customers. It also helps in maximizing the revenue generation of the airline companies in various ways. The regular passengers can use this system to get the information regarding the special offers and discounts provided to them.

CONCLUSION

We learnt about the applications of JAVA in making functional projects and successfully created an airline reservation system that shows flight types, their prices, options to reserve seats and facility to send unaccompanied baggage. With the help of all this information and resources we successfully made an Airline Reservation System.

THANK YOU