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Java Project Final Writeup

Abstract

In the interest of making a database project, I decided to make a train seat reservation system. Through this system, users will be able to enter a seat of their choice (either window or aisle). Based on users input, the system will check if there are any available seats and print out a boarding pass. Apart from the Java code, most of the work involves if-then statements and practicing how to book seats using an array.

Introduction

Are you interested in purchasing a train ticket ahead of time? If so, the train seat reservations system is where you need to navigate to. Through this system, you will be able to book your train seats ahead of time. Worried you wont get your preferred seat? No worries, we will make sure you have the opportunity to pick an isle or window seat.

Detailed System Description

The system is extremely useful for users who want to buy train tickets. All the user has to do is launch the system and it will display a message asking if customer want an aisle or window seat.

The database system has one main class system: Reservation.

Reservation
- seats: int
- dateCreated: String
- + 1: bookWindow()
- + 2: bookAisle()

Requirements

The system must address some factors in order to accomplish its task. First, a scanner needs to be imported in order to obtain input and for it to get the date. Then, we must initialize the seats to a value of 0. Whenever a customer books a seat, a value of 1 will take spot of that array. The value 1 = window, 2 = aisle, and 0 = exit. The bookWindow function is called whenever a customer choses a window seat. If there are no seats available, the system attempt to find available seats in the aisle section and vice versa. If there are available seats, the system will outpoint the customers boarding pass. If there are absolutely no seats left, system will let user know that there are no available seats left.

Literature Survey

Something that I wish I could have differently is have the program assign a specific seat on the train. As a result, the program would output the boarding pass with a random assigned seat for the customer.

User Manual

The train seat reservation system is very simple and quick to use. Simply open the system and indicate if you want a window or aisle seat. The system will notify the customer if there are available seats and print out the correct boarding pass.

Conclusion

This system mostly consists of decision statements that check whether there are seats available and possibly look for alternative seats to book for the user.

References

Liang, Y. Daniel. Intro to Java Programming: Student Value Edition. Prentice Hall, 2014.