Design Detail: BookFlight.java

Attributes:

* Flight flight
  + Flight specified that the customer wants to book
* int numSeats
  + Number of seats to be reserved on the specified flight for the customer
* Reservation reservation
  + Used to create new reservation for the customer for the specified flight

Functions:

* validReservation()
  + checks if there are enough empty seats within the flight to allow for the customers number of desired seats
* createReservation(String reservationHolder)
  + creates reservation with reservation holder’s name
* generateSeatNumbers()
  + assigns seat numbers to all the seats desired to be reserved by the customer
* reserve()
  + IO used for customer to input important information regarding their reservation

Functions in detail:

generateSeatNumbers()

seatsNumbersLeft = flight’s capacity – flight’s empty seats + 1

seatNumbers[]

for (i = 0 to number of seats on reservation)

seatNumbers[i] = seatNumbersLeft

seatNumbersLeft++

set reservations seat numbers to seatNumbers[]

reserve()

sc = new Scanner //create new scanner

reservationHolder //name of customer making reservation

reserveSeats //number of seats customer wishes to reserve

print(“Enter your name: ”)

reservationHolder = sc.next

print(“Enter the number of seats you would like to reserve: “)

reserveSeats = sc.nextInt

create new reservation with newly added information

add new reservation to database