4200Comp CW2

A Rail Service requires an automated seat reservation system. The system is intended to provide customers with a reservation system that will help them book they most suitable seat to their requirements. The touchscreen will provide a main menu with 3 options:   
 - Display available seats  
 - Reserve a seat  
 - Cancel a reservation  
 - Quit

The Display Seats option will display a list of seats that can be reserved. Each seat is defined by:

- A Seat Number  
- A Seat Type  
- Seat Position (Aisle, Middle, or Window)  
- Seat Price  
- Availability

The Reserve Seat option will allow a customer to Reserve a seat by input of their Seat Number and their email address. A seat can only be booked by one customer at a time. The Cancel a reservation option will allow a customer to cancel a seat that was ordered previously. The Quit option will display a goodbye message and terminate the program.  
   
You are required to produce an application that simulate the Seat reservation system by allowing a user to select the various menu options of displaying Seats, reserving Seals, cancelling Seat reservations and quitting the program. On start-up your application will need to   
load all seats, which will be used for the simulation.

Main Nouns  
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1. Rail Service
2. Automated Seat Reservation System
3. Customer
4. Main menu
5. Seats
6. Seat Type
7. Seat Position
8. Seat Price
9. Availability

Main Verb Phrases  
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1. Provide a Main Menu
2. Display all seats
3. Reserve a seat
4. Cancel a reservation
5. Input Seat Number
6. Input Email
7. Quit

* Seats()
* ToString
* Reserve
* Cancel
* getEmail
* SeatNum: String
* SeatClass: String
* AisleSeat: Bool
* MidSeat: Bool
* WindowSeat: Bool
* SeatPrice: Double
* Avail: String

Seats

* Main()
* loadSeats()
* displaySeats()
* reserveSeats()
* cancelSeats()
* Num: String
* Class: String
* Aisle: Bool
* Mid: Bool
* Window: Bool
* Price: Double
* Avail: String

MainClass