Coursework 2 Design Document

A train company requires a console application the allowed the user to reserve a seat on a train, view which seats are already reserved and be able to cancel their reservation. The user should be greeted with a 4-option main menu.

* Reserve a seat
* Cancel seat
* View seat reservations
* Quit

The reserve seat option will allow the user to reserve a seat by asking the user to answer questions, to input their search criteria, about what seat they want such as what class or if the seat has a table, it will then display any seats that matches the customers searches and allows the user to enter the seat number of the seat they wish to reserve and enter their email to go along with the reservation.

The cancel seat option will allow the user to enter their email and if they have already reserved a seat then they are able to cancel that reservation.

The view seat reservations options allow the user to see what seats are reserved and therefore aren’t available. Each seat is defined by:

* Seat number
* Seat class
* If it’s by a window
* If it’s by an aisle
* If it has a table
* Its price

Main Nouns Main verbs

User Reserve seat

Main menu cancel seat

seat Input search criteria

Seat number Display seats for the customers searches

Seat Class Display reserved seats

Seat Price Enter email

Window or aisle Quit

Table seat

Main

* Main Menu
* Reserve seat
* Cancel seat
* View reserved seat
* Quit

seatMemory

* seatNum
* seatClass
* isWindow
* isAisle
* isTable
* price
* Diagram

  Description automatically generatedeMail