CSCI217 Project Documentation

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Theatre Reservation System

***Overview:***

Our program is designed to enable people to reserve, cancel, and reset seats in a theatre. Users choose between first, second, and third class, after choosing their preferred seats and checking their status, if the seats are not occupied users can reserve them and get an invoice that calculates the total cost of reservation.

***Features:***

Reservation: Enables users to reserve and show the status of the seat (green = seat is selected, red = seat is already reserved, grey = available)

Cancellation: Allows users to cancel reservations

Reset: Resets all seats’ statuses and clears reservations

Invoice: Calculates the money the user is going to pay which depends on the amount of seats

Exit: Terminates the program

***SEAT Class:***

4 Attributes: seatNumber, isReserved, seatPrice, seatColor

* seatNumber: identifies the seat.
* isReserved: Boolean that indicates if the seat is reserved.
* seatNumber: Pricing the seat based on class.
* seatColor: Coloring the seats based on reservations.

***First Class:***

Number of Seats: 20

Rows: 4

Columns: 5

Ticket Cost: 50$

***Second Class:***

Number of Seats: 40

Rows: 8

Columns: 6

Ticket Cost: 15$

***Third Class:***

Number of Seats: 50

Rows: 10

Columns: 5

Ticket Cost: 10$

***Theatre Seats Demonstration:***

A screenshot of a computer

Description automatically generated

4 Seats Selected

15 Seats Not Available (Reserved)

2 First Class = 100

2 Second Class = 30

***A screenshot of a computer

Description automatically generated***