Logan Monaco

Professor Juan Arias

Software Development 1

Project 2 Proposal

Movie Theatre Ticket Database

My project is to create a database that will allow customers to purchase tickets online and reserve their seat. The general design of the system will be an interface that goes through a series of questions, prompting the user to enter the movie they want to see, their basic info, and the time they would like. The system will then check the availability of the seat and whether or not the seat has already been reserved by someone else in the system. This will be done by using a two dimensional array of the movie theatres seats and running adding 1 to each of the numbers each time a user reserves the seat. A Boolean will then check whether or not there are any seats remaining that don't have a value of 1, otherwise the system will inform the user that all seats for that showing are full. Another part of the system will deal with the variation of seats in different screening rooms, as well as the idea of having the same movie playing in two different theatres, which would mean that the user could be bumped to a different room if one is already full. Finally, the last part of the system will keep track of the people who have reserved the tickets and input their info into a separate database in order to keep virtual receipts in case of any situations where the customer questions a reservation. This system would enable users to reserve their seats for a movie with ease and would prevent any scenarios where the customer shows up to the theatre only to be told that the movie they would like to see is full. Economically, it is beneficial for a company to invest in and implement seeing as the ease of reserving seats will lead to more people making the initial commitment to go see a movie and increase the likelihood of a follow-up purchase of a ticket.