Final Project Movie

Abstract

The project that I have recently completed is a movie application. By accessing this application the user will be able to purchase a movie ticket along with a seat for the showtime of his choosing. The user will use a series of inputs to navigate through the app.

Introduction

This project I have developed is a movie application that will count as the final project for my class . It is the last assignment for the semester. I am working to incorporate all the various things we learned throughout the course of the semester into this project. I have spent many hours so far on this project trying to make it as simple and efficient as possible.

Detailed System Description

This application heavily relies on the scanner function. I have also imported various java filed that will serve as helper methods throughout the course of the program. Firstly, the program asks for input from the user. The system will typically display various outputs and in response to the outputs the user will select what he wishes to do. The user will then input the specified input which is either an integer, or a string. The user will simply enter numbers through the keyboard and the methods will do most of the work in terms of running through the program. I have tried to minimize the effort that the user must input. This application incorporates a variety of if else statements as well as switch statements as a means to maneuver through the application. There are two classes, there is the movie methods class, and the movie class which serves as the driver. There are a variety of methods that are used by the user to fit his individual requirements. I have thrown some exceptions in case the user tries to fool around with the application and so it does not crash. There are no super classes and no extending or implementing another class. I did create an object in the main class that is used to reference the methods in the other class. The user must be very careful with the program because it is case sensitive. By misspelling a word, or phrase the program may interpret the program differently. And if this happens, I recommend the user go back and type in his input carefully.

Requirements

This project I am working on is used to tackle the issue of purchasing movie tickets. We all know it is a hassle to go to the movie theater and wait in a long line just to find out the movie we want to see is booked. In order to solve this problem I have developed this movie application. Through this application users will be able to pick the movie of their choice and purchase a drink or snack based on their choosing. Currently, I am unaware of current movie apps that allow you to purchase snacks with your ticket.

Literature Survey

There are currently some big movie theaters that have the ability to book tickets through their app. However, these are often big franchises that have a lot of money to develop their own application. I wish to target smaller movie theater franchises which do not have the money to develop their own application. I will sell my software for a certain amount of money and maintain a certain gratuity that will be give based upon the number of users that use my applications.

User Manual

The instructions for this program are quite simple. The user hits the run button and the application starts. The user should be warned that the program is case sensitive, so I warn them to be very careful when typing input into the program. Also, one important note, in order to confirm a movie time or a beverage, the user should type the word yes into the system in all lowercase. Failure to do so, will lead the program to read the else part of the statements. After this, the system will print out and ask the user for their name and then issue a greeting with their name. After this the user will be asked which movie he or she wishes to see and at what time. The user will simply pick their options by typing in numbers. After this, they will be asked if they would like to confirm their spot. If they select no, then the program will be terminated. If they select yes, then they will be asked if they would like a refreshment., and the options will be listed. It will then ask the user if they wish to opt for a reclining seat for an additional $3. After this, the program will print out their ticket seat and their total cost. If the user opts for a refreshment he can still choose one. If they like it then they can select it by pressing the necessary commands. If they do not like the choices, they can still not choose one. And after that it will ask them if they want a recliner seat. They can choose if they want to and based on that, their final price will be determined.

Conclusion

I feel my project is an accurate representation of all the various things we have throughout the period of this course. I feel that I have put in a lot of time and effort into developing this application and spent a lot of time debugging it so it works nicely. Eventually, I want the program to be able to collect movie theater based on the user location, as well collect the time of the shows and display the closest theater. I would have enjoyed to add more to the program, but due to a lack of time I was not able to. I also feel the things I would be adding would be beyond the scope of the class. One thing I really focused on was making my project as user friendly as possible. I wanted it to make it as easy as possible for the user to navigate through the program.

UML Diagram

-low: Integer

-high: Integer

-ticket: Integer

-name: String

+name Capitalize(name: String)

+ticketPriceGenerator (low: Integer, high: Integer, ticket: Integer)

+seatGen (alpha:String[], num:String[])

+Refreshments()

+Soda(in: Scanner)

+Popcorn(in: Scanner)

+Recline(in: Scanner)

+Pretzels(in : Scanner)

+Candy(in : Scanner)

+finalBillPop(in:Scanner, popcorn: boolean, recline: boolean)

+finalBillCandy(in:Scanner, candy: boolean, recline: Boolean)

+finalBillPretzel(in:Scanner, pretzel: boolean, recline:boolean)

+finalBillPop(in:Scanner, soda: boolean, recline:Boolean)

Movie Methods