



CINEMA RESERVATION SYSTEM

Assignment 4

Özet

I talk about the problems that i faced through writing process briefly.
I say detailed information about my implementation and more.

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Concept

In this assignment we were given to make a cinema reservation system for general use purpose. We had three members each member had different abilities and different benefits. We had a backup data to initialize our program and process. We were asked to build a two sided program for users and admins. Admins should be able to do advanced stuff like removing a film or promoting users.

Problem

We only had a little bit information about GUI and we needed to develop in javaFX. Whole concept was a bit different for us. I needed to understand what scenes and stages were and how to work with them. I had no idea how the buttons functions can be customized and how do we put them in the right position.

My solution

I managed to learn my way through a good understanding of basic GUI how to work with tools in javaFX with the help of internet and slides. I understood the concept of stages and scenes. I used basic functions for every scene that i am going to use and i only had different stages when i want to use an allertbox. In my basic design Hbox and Vboxes were the only reasonable panes that i could think of.

They are really easy to work with and have different usefull functions. I usually used static variables to communicate between scenes and functions and that made it a little bit easier for me. I stored every data that i have initialized from the backup.dat file to my objects and then i stored the objects in an ArrayList full of objects. When admins do manipulations on the data they rearrange the objects and when we close the program backup.dat recreate itself from this arraylist.

Subproblems

- 1- I had a lot of problem trying to make javaFX media class work. Whatever i do i couldn't manage to play the media that i want to play.
- 2- When i finally opened the media my scene would sometimes crush from an unknown reason and my buttons were gone from the scene.
- 3- I had a lot of problem trying to resize and organize the interface for a better look.

My solution

- 1- I finally found out that Media class that i imported was from a different package and it was giving me error because of that. There were multiple Media classes in my computer.
- 2- After a few investigation i found out that sometimes my video would crash and wouldn't open and couse an error in the scene so my buttons would disappear. There was a function that (setOnError) whenever there was an error in the video it will do whatever i say. I go to the previous page and let us try again and again until it work.
- 3- I used different kind of panes before and they were not good for my application. I switched to VBox and Hbox and their functions were better and easier to use. I also fixed my scenes so it is more organized and easy to handle.

Features

First of all i arranged some of the buttons to go back to the parent page whenever the object is done. That way i thought it would be more efficient. I thought button style could bring a more enjoyable usage in my application so i rearranged it and made it more modern. Whenever maximum error is reached people weren't getting a detailed information about how many second they have left. I added a timer that shows how many seconds are there left to log in again.

My most important feature is a payment page. I thought users would have had a difficult time when they try to buy their seats on and it would be complicated. I implemented a multiple selectable seats that you can choose and whenever you are done you can get to the payment page and finish your purchase. We don't take people's information about the purchase therefore people could forget the tickets and can't get in so i get their personal information to sell the tickets on the person. This way people can get in with their Id's

Benefits

Benefits of the System

System is very usefull because it is much more faster to buy a ticket online than going the cinema hall to buy it. You get easy Access to trailers of the movies that currently in theatres. You can compare the different prices of the halls and choose for your pocket. You can even get discount if you get a club membership!

Benefits of the GUI

It is easy to communicate with users using GUI. It is more understandable for people who are using it and effective for usage. It could get more attention. I organized my GUI so that every person could easily navigate their way into purchasing the ticket. I also made some changes in the buttons so that it is better looking and it gives more modern look to my application. I used images for my media buttons that everyone can relate to. I also made some changes in the seat selection screen with a ticked seats.

Resources

Youtube link to my demo:

<https://youtu.be/F729iigYwzw>

I used Google for my icons and youtube for my sound effects.