



HACETTEPE  
UNIVERSITY

**BBM104**

**ASSIGNMENT 4**

HÜCS CINEMA RESERVATION SYSTEM

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## INDEX

Cover Image .....	1
Index .....	2
1 – What Is The Problem? .....	3
2 – What Is The Solution? .....	3
3 – Here Are Some Problems .....	3
4 – Benefits Of This System .....	4
5 – Benefits Of The GUI .....	4

# 1 – WHAT IS THE PROBLEM?

The problem is that we need to store the information about a cinema saloon, that is how many halls it has, what are the names and capacity of these halls, how many rows and columns of seats these halls have, what are the films that will be showing in these halls, what are it's prices, who will buy the tickets, how will they buy it etc...

The main problem is how we can do all of these things, can we make it easier do to this things?

# 2 – WHAT IS THE SOLUTION?

As we need it to store and do this all processes, we can make use of programming.

We can make a system with programming that stores the all of information we must need and handles the events that changes the informations.

This program must be able to be accessed by the administrators and customers, customers must be able to create an account for themselves, and view the films, halls and buy seats. Administrators must be able to control the system, control the users, films, halls and seats.

So we can make a system to do all of these processes with just clickings and typings.

# 3 – HERE ARE SOME PROBLEMS

Firstly I need to have some informations about how to make a GUI for creating this type of programs. I worked for learning JavaFX for this problem.

Then I must know the how to store the informations which is given in a ".dat" file and I learned it. Then created the pages "login","signup", "welcome", "film", "hall", etc.

I was really in a big trouble to access and change the stored data of films, halls, seats and users. So I opened their classes for each one and do their processes in their methods.

Then I have a big problem with the updating backup.dat, i don't know how to change it's content so I deleted the old one and created the new one in every close of the program.

## 4 – BENEFITS OF THIS SYSTEM

We can store and access all the information with ease with this system. We don't need to calculate and handle every actions on these processes.

## 5 – BENEFITS OF THE GUI

The user's and admin's do their processes with just clicking and typing buttons. The graphical design makes it easier to do this.