

***This is a software for production companies.***

**Clients:** Production companies of the movie industry will be our client and they can log in to their profile to use the service. In a profile, the company will have a dashboard from where it can access different features.

Unlike our previous part of the project, the file containing all the information of all movies – “movies.txt” won’t be available for us to use. It will be stored in a server. One client ( a production company) will request the information of its movies from the server and it will receive the ‘database of movies it has produced’. (Give me back what’s mine :3)

**Server:** Server is a separate java application. Server will have a different main function other than the one of Javafx. This separate java program serves a list of movies in demand.

## **Client application**

### **Main Features:**

1. Search production company features
2. Add movie to the list of produced movies
3. Transfer a produced movie to another company

As a specific production company. In the dashboard, that production company will have operation fields like: (Buttons may vary)

- Search:
  - Most recent movies
  - Movies with maximum revenue
  - Total profit
- Add a movie
- Transfer a movie

### **Log in:**

User login interface: A text field for the name of production company + a login button. (Or any other choice of yours to show a login interface)

### **Search Production Company features:**

Server will give you the list of your produced movies upon request as a client. You will have the list of your movies only and operations can be done on them like we did before in part 1 such as : filtering the most recent movies or the ones with the maximum revenue.

### **Add movie:**

When adding a movie take input for all the fields except the “production company”. Because we have logged in as a production company and adding movies to the list of the movies this company has produced. Also, you must take input using UI, not scanner.

### **Transfer a movie:**

**\*\***Here you will need the networking part.

The need of networking: You can import information from a server on a different computer. You will be able to transfer information between two different computers via the server. **\*\***

This is a request to the server. Server will receive the request and implement the main logic to transfer a movie from one company to another.

What is expected of you: You will have to show the automatic transfer upon the transfer command. That means, two clients will log in to their profiles at the same time and two windows will show the list of their movies side by side. Once you click to transfer one movie to another, the change should be real-time, instant and automatic. Updated list of these two companies must be visible right on the

transfer command without pressing any reload button. This automated change is the most crucial part because the list of the movies isn't being updated all the time from the server. It generates a list when you request for it (load it) and remains the same until you ask for it again and again. So, you will have to implement automation in it.

The trick: Forward the movie to its designated company and show the newly added movie name in its window. That will look like a real time change in the list.

But if you face difficulties in it, you can have a reload button that will ensure the update upon click. In that case, you will lose some marks

### **Exit System:**

This is implemented by the server/ the networking program. Throughout the runtime, server keeps updating the database object list in its memory. Before the program exits, server writes in the database file – "movies.txt" and then exits the program.

Extra/Bonus work : Search movies within the list by different filters such as – by title, by release year, by genre etc.