1. **Actions**

**Cinema Ticket Management System (JAVA)**

**Main window**

**Search** – User can search for a movie title, if the movie title does not exist, display error message, else display movie poster. If you click the poster, you can view info about it.

**View movie info** – User can see information related to the movie. You can click the ticket booking button to book a seat the specific movie.

**View program info** – User can see a list of movies available for a certain date and hour (during a week).

**Book ticket** – User enters booking window.

**Select screening** – User can select a ticket specifying movie title, type, date, hour.

**Select ticket type** – User can select the tickets type (student, child, retired, adult).

**Select seat** – User can select the seats from the room.

**Contact info** – User gives personal details (first name, last name, e-mail, phone number) and must pass the “Captcha” test.

From all these windows, the user can go back to the previous window.

1. **Appearance**

**Main Window**

On the top-right there is a text label, text field and button used to search for a given movie title.

Below the search toolbar, there is a horizontal scroll pane with movie posters. If the user clicks a poster, the “Movie Info” window shows up.

Below the posters, there is a “Program” button that brings the cinema program window.

Below the program button, there is a “Booking” button that brings the ticket booking window.

On the bottom, there is a…

**Movie Info Window**

This window shows details like: title, genre, duration, language, premiere, rating, director, actors, year and description. On the top-left there is a “Back” button that brings the user to the main window. On the top-middle there is a “Movie Info” label. On the bottom-right there is a “Booking” button that brings the booking window and automatically fills the movie title field.

**Program Window**

The program window will contain a table with columns: “Title” and “Hours”. The hour entries can be clicked and bring the “Booking window” with the “Movie title”, “Type”, “Date” and “Hour” automatically filled.

**Booking Window**

This window brings the user to the booking process. On the top-left there is a “Booking” label. From top to bottom there are 4 drop-down lists: “Movie”, “Type”, “Date” and “Hour” which lets the user to choose the screening. On the bottom-right there is a “Next” button that pops up the “Ticket type” selection window, if there are no more available seats, this button will not perform any action. On the top-left there is a “Back” button that brings the user to the main window.

**Ticket Type Window**

From this window, the user can choose the ticket type (with a drop-down list) and number of tickets respectively (with a number field increment). On the top-middle there is a “Ticket type” label. On the bottom-right there is the “Next” button that brings the “Seat select” window. On the top-left there is a “Back” button that brings the user to the main window.

**Seat Select Window**

From this window, the user can choose the seats in the screening room. On the top-left there is a “Back” button that brings the user to the main window. On the top-middle there is a “Seat select” label. Below the label, three labels named: “Please select “, “N”, “ seats” will be displayed where ‘N’ is the number of seats that must be selected. It will be incremented or decremented according to the user’s choices. On the bottom-right, the “Next” button brings the user to the “Person info” window.

**Person Info Window**

In this window, the user is asked to fill the text fields: “First name”, “Last name”, “Phone” and “E-mail”. On the bottom-right there is a “Captcha” check box that must be checked in order to successfully book the ticket. Next to the “Captcha”, the “Finish” button shows the “Successful booking” window.

**Successful Booking Window**

This window displays the “Successful booking” message and bellow, the “Home” button does what it says.

1. **Classes**
2. **Movie**
3. **Screening**
4. **Room**
5. **Ticket Type**
6. **Program**
7. **File Handler**
8. **MVC**

**Cinema Controller class**

Reads movie from file (“Movie” + “File Handler”)

Reads screening from file (“Screening” + “File Handler”)

Reads ticket type from file (“Ticket Type” + “File Handler”)

Reads program from file (“Program” + “File Handler”)

Keeps track of the windows

Displays the corresponding windows

**QUESTIONS AND IDEAS!?**

8 views for each panel

“File Handler”

Stack to keep track of windows

Movie, Screening and Room classes implement “Writeable” and “Readable”