Rezervare locuri cinema

Un cinema pune la dispozitia clientilor un sistem pentru rezervarea locurilor la cinema. În fiecare zi, institutia are mai multe reprezentatii, la care clientii pot rezerva locuri începand de luni in saptama respectiva. Pentru un loc în sala, sunt memorate urmatoarele informatii: pozitie (rândul x, scaunul y etc.) si numar. Terminalele puse la dispozitia spectatorilor afiseaza întreaga configuratie a salii, precizând pentru fiecare loc pozitia, numarul si starea (liber sau rezervat). Folosind un astfel de terminal, clientii îsi pot introduce datele personale, pot selecta unul sau mai multe locuri si pot declansa un buton pentru rezervarea lor. După fiecare rezervare, toate terminalele vor afisa situația actualizata referitor la ocuparea sălii.

De asemenea, utilizatorii pot create rezervare(explicat mai sus), anulare rezervare, vizionarea tuturor rezervarilor, actualizarea unei rezervari, filtrarea rezervarilor, adaugare filme la watchlist, stergere din watchlist, vizionare lista watchlist, filtrare watchlist, adaugare review la filme, actualizeaza review la filme,vizionarea unui film, login, logout, sign up, update account information.

**ITERATIA 1**:

* Creare rezervare
* Anulare rezervare
* Update rezervare
* Vizionarea tuturor rezervarilor
* Login

**ITERATIA 2**:

* Adauga filme la WatchList
* Vizionarea unui film
* Sterge filme din WatchList
* Vizionare lista WatchList
* Logout

**ITERATIA 3**:

* Adauga review
* Actualizeaza review
* Filtreaze rezervari
* Filtreaza WatchList
* Sign up
* Update account information

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| **ID and name** | CS-1: Make a Reservation | | |
| **Primary actor** | Client | **Secondary actors** | Cinema System |
| **Description** | A client makes a reservation for a movie from the Cinema App from either their phone, laptop or in the cinema. The client selects the program for a specific date, selects a movie and an hour, and receives an email with the confirmation and tickets. | | |
| **Trigger** | The Client enters the program view in the app. | | |
| **Preconditions** | PRE-1. Client is logged in the app( CS-13: Login) | | |
| **Postconditions** | POST-1. Reservations are stored in the Cinema Reservation System with the status “Accepted”  POST-2. The system makes the corresponding changes to the number of tickets for the movie and hour selected | | |
| **Normal flow** | 1. **Make a reservation** 2. Client asks to view the program for a specific date.(see 1.0.E1) 3. The system displays available movies for the specific day. 4. Client selects a movie and the hour.(see 1.3.E2) 5. The system opens the page for the client to select the number and type of tickets they wish to reserve.(see 1.4.E3) 6. The client enters the corresponding data. 7. The system displays the page with the configuration of the room in which the movie will take place. 8. The system keeps track of available seats and displays them with a specific color, different than the occupied ones. 9. The client selects the desired available spaces, as many as the number of tickets select at step 1.0.5. 10. The system displays the option to choose between two types of reservation: pay online or pay at the cinema and the price of the tickets. 11. Client selects the desired option.   11.0. If client selects ‘pay online’, then the system asks the client to enter the card details.(next step 12)  11.1. If client selects ‘pay at the cinema’, then the system displays the ‘Reservation confirmed’ message and sends the confirmation by email.  12. The client enters the credit card details.  13. The system validates the card, then displays the ‘Reservation confirmed’ message and sends the tickets and confirmation by email. | | |
| **Alternative flows** | **1.1 Make multiple reservations**  1. Clients asks to return to the programs page  2. Return to step 1 of normal flow. | | |
| **Exceptions** | **1.0.E1 Client tried to access the program for a date that is before the time of updating the program**  1. The system informs the client that the program for the specified date is not available.  2a. If client closes the programs page, the system terminates use case.  2b. If client requests another date, then the system restarts use case.  **1.3.E2 The selected movie has no available seats for the specified date.**  1. The system confirms that there are no available seats left for the specified movie and hour.  2a. If client selects another date for the movie, or another movie, the system restarts the use case.  2.b If client exits the program page, the system terminates the use case.  **1.4.E3 The number of seats selected exceeds the number of available seats.**  1. The system informs the client that the number of available seats reached 0.  2. The client can choose to modify the number of tickets he wishes to reserve. Return to step 6 of normal flow. | | |

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| **ID and name** | CS-2: Delete a Reservation | | |
| **Primary actor** | Client | **Secondary actors** | Cinema app |
| **Description** | The client accesses the list of all the reservations he has made. The client can filter and select the desired reservation he wishes to delete. The system confirms removing the reservation and sends a confirmation by email. | | |
| **Trigger** | A client selects a reservation and clicks the button for delete | | |
| **Preconditions** | PRE-1. The client is logged in the app( CS-13: Login)  PRE-2. The client has made at least one reservation. | | |
| **Postconditions** | POST-1. The reservation is removed from the Reservation Inventory System.  POST-2. The system makes the corresponding changes to the number of tickets for the movie and hour selected | | |
| **Normal flow** | **2.0 Delete a single reservation**   1. Client asks to see the list of the reservations they have made. 2. COS displays the list of reservations. 3. Client selects the reservation they wish to delete and presses the delete button.(see 2.3.E1) 4. The system displays the confirmation option for the client. 5. The client confirms removing the reservation.(see 2.1) 6. The system updates the list of reservations, removing the one they just deleted | | |
| **Alternative flows** | **2.1 Refund the client**  1. The client has paid online for the reservation he wished to delete.  2. The systeminforms the client that the return of the money will take a few days.  3. The client consents and the normal flow continues with step 6. | | |
| **Exceptions** | **2.3.E1 The date and hour for the movie reserved has passed**  1. The system confirms that the client can’t delete the reservation, because the movie date and hour have passed  2a. If the client selects another reservation, the system restarts the use case.  2b.If the client exits the list of reservation list, the system exits the use case. | | |

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| **ID and name** | CS-3: Update a Reservation | | |
| **Primary actor** | Client | **Secondary actors** | Cinema app |
| **Description** | The client accesses the list of all the reservations he has made. The client can filter and select the desired reservation he wishes to update. The system confirms updating the reservation and sends a confirmation by email. | | |
| **Trigger** | A client selects a reservation and clicks the button for delete | | |
| **Preconditions** | PRE-1. The client is logged in the app( CS-13: Login)  PRE-2. The client has made at least one reservation. | | |
| **Postconditions** | POST-1. The reservation is updated in the Reservation Inventory System.  POST-2. The system makes the corresponding changes to the number of tickets for the movie and hour selected(or updated) | | |
| **Normal flow** | **3.0 Update a single reservation**   1. Client asks to see the list of the reservations they have made. 2. COS displays the list of reservations. 3. Client selects the reservation they wish to update and presses the update button.(see 3.3.E1) 4. The system displays the input text for the client to update reservation. 5. The client enters input to update the reservation: hour and/or for the movie. 6. The system validates the user input(see 3.6.E2) 7. The client confirms removing the reservation.(see 3.1)   The system updates the list of reservations, removing the | | |
| **Alternative flows** | **3.1 The client needs to be refunded**  1. The client paid online for the initial reservation, but the new price changed(in case of premieres).  2. The systeminforms the client that the return of the surplus money will take a few days.  3. The client consents and the normal flow continues with step 6. | | |
| **Exceptions** | **3.3.E1 The date and hour for the movie reserved has passed**  1. The system confirms that the client can’t update the reservation, because the movie date and hour have passed  2a. If the client selects another reservation, the system restarts the use case.  2b.If the client exits the list of reservation list, the system exits the use case.  **3.6.E2 The selected hour and date for the updated reservation doesn’t have the number of available seats corresponding to the initial reservation.**  1. The system informs the client that the selected hour and date doesn’t have enough seats.  2a. The client can choose to delete the reservation and make a new one.(see 2.0 and 1.0)  2b. The client can reduce the number of seats for the reservation(see 3.1).  3. The system confirms the new number of seats and displays the confirmation message | | |

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| **ID and name** | CS-4: See reservation list | | |
| **Primary actor** | Client | **Secondary actors** | Cinema app |
| **Description** | The client accesses the list of reservation. The system displays the list. | | |
| **Trigger** | The client signals that they want to see the reservation list. | | |
| **Preconditions** | PRE-1. Client is logged in the app( CS-13: Login) | | |
| **Postconditions** | POST-1. The system displays the list | | |
| **Normal flow** | **4.0 View the reservation list**  1. The client signals that they want to see the reservation list.  2. The system displays the reservations made by the client. | | |
| **Alternative flows** | **None** | | |
| **Exceptions** | **None** | | |

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| **ID and name** | CS-5: Filter the reservation list | | |
| **Primary actor** | Client | **Secondary actors** | Cinema app |
| **Description** | The client wants to filter the list of reservations. The system displays the reservations that correspond to the filters. | | |
| **Trigger** | The client signals that they want to filter the reservation list. | | |
| **Preconditions** | PRE-1. Client is logged in the app( CS-13: Login)  PRE-2. Client views the reservation list(CS-4: See reservation list) | | |
| **Postconditions** | POST-1. The system displays the filtered list | | |
| **Normal flow** | **5.0 Filter the reservation list**  1. The client signals that they want to filter the reservation list  2. The system displays the attributes that the client can filter by(date, movie).  3. The client enters the desired filters.  4. The system displays the list with the reservations filtered.  5. The client can later choose to discard the filters and view the whole list. | | |
| **Alternative flows** | **None** | | |
| **Exceptions** | **None** | | |

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| **ID and name** | CS-6: Add movie to WatchList | | |
| **Primary actor** | Client | **Secondary actors** | Cinema app |
| **Description** | The client wants to add a certain movie for watch list. The system updates the list of movies in the WatchList. | | |
| **Trigger** | The client accesses a certain movie and presses the button for add to WatchList. | | |
| **Preconditions** | PRE-1. Client is logged in the app( CS-13: Login)  PRE-2. The client views the movie information(CS-12: Access movie information) | | |
| **Postconditions** | POST-1. The system saves the new WatchList entry.  POST-2. The system updates the WatchList. | | |
| **Normal flow** | **6.0 Add movie to WatchList**  1. The client is on the page for a certain movie and chooses to add the movie to WatchList.(see 6.1.E1)  2. The system informs the confirmation for the new entry and updates the WatchList.(see 6.1) | | |
| **Alternative flows** | **6.1 Send reminder email**  1. The system informs the client that the selected movie is not playing in the cinema at the moment, but can send an email when it will be.  2. The client confirms the email reminder. | | |
| **Exceptions** | **6.1.E1**  1. If the client wants to add a movie to WatchList that they already have a review for, the system will inform the client that they can’t add the movie to WatchList. | | |

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| **ID and name** | CS-7: Remove movie from WatchList | | |
| **Primary actor** | Client | **Secondary actors** | Cinema app |
| **Description** | The client wants to remove a certain movie for watch list. The system updates the list of movies in the WatchList. | | |
| **Trigger** | The client accesses a certain movie and presses the delete for add to WatchList. | | |
| **Preconditions** | PRE-1. Client is logged in the app( CS-13: Login)  PRE-2. The movie that the client wants to remove from WatchList is currently in the WatchList. | | |
| **Postconditions** | POST-1. The system deletes the WatchList entry.  POST-2. The system updates the WatchList. | | |
| **Normal flow** | **7.0 Remove movie to WatchList**  1. The client is on the page for a certain movie and chooses to delete the movie to WatchList.  2. The system informs the confirmation for removing the movie and updates the WatchList. | | |
| **Alternative flows** | **None** | | |
| **Exceptions** | **None** | | |

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| **ID and name** | CS-8: View WatchList | | |
| **Primary actor** | Client | **Secondary actors** | Cinema app |
| **Description** | The client wants to view the movies int the watch list. The system the list. | | |
| **Trigger** | The client accesses the WatchList | | |
| **Preconditions** | PRE-1. Client is logged in the app( CS-13: Login) | | |
| **Postconditions** | POST-1. The system deletes the WatchList entry.  POST-2. The system updates the WatchList. | | |
| **Normal flow** | **8.0 View WatchList**  1. The client signals that they want to see the WatchList.  2. The system displays the movies from the WatchList. | | |
| **Alternative flows** | **None** | | |
| **Exceptions** | **None** | | |

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| **ID and name** | CS-9: Filter WatchList | | |
| **Primary actor** | Client | **Secondary actors** | Cinema app |
| **Description** | The client wants to filter the movies int the watch list. The system the returns the filtered list. | | |
| **Trigger** | The client accesses the WatchList | | |
| **Preconditions** | PRE-1. Client is logged in the app( CS-13: Login)  PRE-2. Client views the WatchList(CS-8: View WatchList) | | |
| **Postconditions** | POST-1. The system displays the filtered list. | | |
| **Normal flow** | **9.0 Filter WatchList**  1. The client signals that they want to filter the WatchList.  2. The system displays the attributes that the client can filter by(movie genre, movie, reviews).  3. The client enters the desired filters.  4. The system displays the list with the movies filtered.  5. The client can later choose to discard the filters and view the whole list. | | |
| **Alternative flows** | **None** | | |
| **Exceptions** | **None** | | |

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| **ID and name** | CS-10: Add movie review | | |
| **Primary actor** | Client | **Secondary actors** | Cinema app |
| **Description** | The client wants to add a review a certain movie. The client can give a movie between 1 and 5 stars, and can leave a written review. The system will store the review in the Cinema Inventory System | | |
| **Trigger** | The client accesses the movie information and presses the button for adding review. | | |
| **Preconditions** | PRE-1. Client is logged in the app( CS-13: Login)  PRE-2. Client views the movie information(CS-12: Access movie information) | | |
| **Postconditions** | POST-1. The system updates the overall review for the selected movie. | | |
| **Normal flow** | **10.0 Add movie review**  1. The client signals that they want to add a review to a certain movie.  2. The system displays the page in which the client can give the stars for the movie and can write a review.  3. The client enters the review details.  4. The movie thanks the client for the contribution.(see 10.1) | | |
| **Alternative flows** | **10.1 Remove from WatchList**  1. If the client gives a review the is in the client’s WatchList, the system automatically removes the movie from WatchList. | | |
| **Exceptions** | **None** | | |

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| **ID and name** | CS-11: Update movie review | | |
| **Primary actor** | Client | **Secondary actors** | Cinema app |
| **Description** | The client wants to update the review a certain movie. The client can edit the number of stars and the written review. The system will update the review in the Cinema Inventory System | | |
| **Trigger** | The client accesses the movie information and presses the button for update review. | | |
| **Preconditions** | PRE-1. Client is logged in the app( CS-13: Login)  PRE-2. Client views the movie information(CS-12: Access movie information)  PRE-3. The movie already has a review for the movie | | |
| **Postconditions** | POST-1. The system updates the overall review for the selected movie. | | |
| **Normal flow** | **11.0 Update movie review**  1. The client signals that they want to update a review to a certain movie.  2. The system displays the page in which the client can modify the stars for the movie and can write a review.  3. The client enters the review detalis.  4. The movie thanks the client for the contribution | | |
| **Alternative flows** | **None** | | |
| **Exceptions** | **None** | | |

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| **ID and name** | CS-12: Access movie information | | |
| **Primary actor** | Client | **Secondary actors** | Cinema app |
| **Description** | The client wants to see information for a certain movie. The system displays the page of the movie. | | |
| **Trigger** | The client enters the movie name in the search bar | | |
| **Preconditions** | PRE-1. Client is logged in the app( CS-13: Login) | | |
| **Postconditions** | POST-1. The system displays the movie information. | | |
| **Normal flow** | **12.0 View movie information**  1. The client enters the name of a movie.  2. The system displays the information for that movie.(see 12.2.E1) | | |
| **Alternative flows** | **None** | | |
| **Exceptions** | **12.2.E1**  1. The system informs the client that the input doesn’t match any of the movie names the system holds.  2a. If the client believes that the name was introduced wrong, they can re-enter the movie name; the system restarts the use case.  2b. If the client believes the movie with the name introduced exists, they can write an email to the Cinema place to request the movie be added to the system. | | |

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| **ID and name** | CS-13: Login | | |
| **Primary actor** | Client | **Secondary actors** | Cinema app |
| **Description** | The client wants to login into the app | | |
| **Trigger** | The client accesses the login page of the app | | |
| **Preconditions** | PRE-1. The client has credentials(email and password) | | |
| **Postconditions** | POST-1. The client is logged in the app | | |
| **Normal flow** | **13.0 Login**  1. The client enters the credentials for the Cinema app account.  2. The system validates the credentials and logs the user in.(see 13.2.E1) | | |
| **Alternative flows** | **None** | | |
| **Exceptions** | **13.2.E1**  1. The system informs the client that the email or password is not linked to any account in their system.  2a. If the client re-enters the account information, the use case restarts. | | |

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| **ID and name** | CS-14: Logout | | |
| **Primary actor** | Client | **Secondary actors** | Cinema app |
| **Description** | The client wants to logout of the app | | |
| **Trigger** | The client accesses the logout option of the app | | |
| **Preconditions** | **None** | | |
| **Postconditions** | POST-1. The client is logged out of the app | | |
| **Normal flow** | **14.0 Logout**  1. The client, already logged in, wants to logout of the app by accessing the option in the account information bar.  2. The system logs the client out of the app. | | |
| **Alternative flows** | **None** | | |
| **Exceptions** | **None** | | |

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| **ID and name** | CS-15: Sign up | | |
| **Primary actor** | Client | **Secondary actors** | Cinema app |
| **Description** | The client wants to sign up for an account in the app | | |
| **Trigger** | The client presses the sign up button in the login page. | | |
| **Preconditions** | PRE-1. The client doesn’t have any credentials(email and password) | | |
| **Postconditions** | POST-1. The client has credentials(an account) | | |
| **Normal flow** | **15.0 Sign up**  1. The client enters the information for the account they want to make(email, password, phone number, name, surname)  2. The system informs the client that these credentials will be used to make reservations.  3. The client enters the information.  4. The system validates the input and requests an email confirmation.  5. The client validates the email confirmation.(see 15.5.E1)  6. The system makes an account using the credentials and logs the user in | | |
| **Alternative flows** | **None** | | |
| **Exceptions** | **15.5.E1 The client doesn’t validate the email confirmation**  1. The system informs the client that the email confirmation has not been validates and the link for the confirmation has expired.  2a. If the client chooses to ask for a re-sending of the email, the use case returns to step 4 of normal flow.  2b. If the client wants to re-enter the email, the use case returns to step 3 of normal flow. | | |

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| **ID and name** | CS-16: Update account details | | |
| **Primary actor** | Client | **Secondary actors** | Cinema app |
| **Description** | The client wants to update account details | | |
| **Trigger** | The client accesses the update account details button | | |
| **Preconditions** | PRE-1. The client is logged in. CS-13: Login | | |
| **Postconditions** | POST-1. The client’s account information has been updated | | |
| **Normal flow** | **16.0 Update account information**  1. The client requests to change the account information(email, password, phone number, name, surname)  2. The system informs the client that these credentials will be used to make reservations.  3. The system displays the page where the client can edit the information  4. The client enters the information.  5. The system validates the input and requests an email confirmation.  6. The client validates the email confirmation.(see 16.6.E1) | | |
| **Alternative flows** | **None** | | |
| **Exceptions** | **16.6.E1 The client doesn’t validate the email confirmation**  1. The system informs the client that the email confirmation has not been validates and the link for the confirmation has expired.  2a. If the client chooses to ask for a re-sending of the email, the use case returns to step 5 of normal flow.  2b. If the client wants to re-enter the email, the use case returns to step 4 of normal flow. | | |