**USE CASE DESCRIPTION**

1. **Login:**
   1. Brief Description:

This use case describes how a user logs into the Movie Ticket Booking System.

* 1. Actors:

The following actors interact and participate in this use case:

* Admin
* Operator
* Customer
  1. Flow of Events:
* Basic Flow:

This use case starts when the actor wishes to Login to the Movie Ticket Booking System. The system requested that the actor enters his/her name, password and role. The actor enters his/her name, password and role. This system validates the entered name, role and logs the actor into the system.

* Alternative Flow:

Invalid Name/Password/Role

If in the Basic Flow, the actor enters an invalid name, password and/or role, the system displays an error message. The actor can chose to either return to the beginning of the Basic Flow or cancel the login, at which the use case ends.

* 1. Pre-condition:

All the users must have a User Account (i.e. Login Id, Password and Role) created for them in the system, prior to executing the use cases.

* 1. Post-condition:

If the use case was successful, the actor is logged on the system. If not, the system state is unchanged. If the actor has the role of “Admin” he/she will have access to screens corresponding to all the User Account Management modules. If he/she has the role of “Operator” or “Customer” he/she can access to screens corresponding to Show Management modules of the system.

* 1. Special Requirements:

None

* 1. Extension Points:

None

1. **Movie and Theater Info Management:**
   1. Brief Description:

This use case allows the actor with the role ‘Operator’ to maintain the movie showcasing details. This includes adding, changing and deleting movie details from the system.

* 1. Actors:

The actor with role ‘Operator’ interacts and participates in this use case.

* 1. Flow of Events:
* Basic Flow:

This use case starts when the Operator wishes to add, change and delete the movie details from the system. Once the Operator provides the requested information, one of the sub-flows is executed:

* + - If the Operator selected ‘Display Movie Info’, the required sub-flow is executed.
    - If the Operator selected ‘Maintain Show Details’, the required sub-flow is executed.

1. Display Movie Info:

The system requests displays the information about the various movies which are being showcased and the ones which will be releasing soon. This includes:

* Plot
* Show timings and availability
* Ticket price
* Trailer
* Reviews and Ratings

1. Maintain Show Details:

This system provides the Operator with sole authority to add a new movie details or to update or delete an old details.

* 1. Add a movie:

This system requests the Operator to enter the movie information. This includes the following attributes of the movie:

* Plot
* Ticket prices
* Release date
* Show timings and availability
* Trailer

Once the Operator provides the requested information, the movie details are added to the system and an appropriate message is displayed.

* 1. Update a movie:

This system requests the Operator to enter the movie name. The Operator enters the movie name. The system retrieves and displays the movie information. The Operator makes the desired changes to the movie showcasing details which include:

* Show timings
* Ticket prices
* Ratings
* Deleting illicit reviews

Once the Operator updates the necessary information, the system updates the movie info and show details database with update information.

* 1. Delete a movie:

This system requests the Operator to enter the movie name. The Operator enters the movie name. The system retrieves and displays the movie information. The system prompts the Operator to confirm the deletion of the movie details. The Operator confirms the deletion. The system deletes the movie records.

* Alternative Flow:
  + Movie not found:

If in the update a movie or delete a movie sub-flows, a movie with specified name does not exist, and the system displays an error message. The Operator can enter a different movie name or cancel the operation, at which point the use case ends.

* + Update cancelled:

If in update sub-flow, the Operator decides not to update the movie information, the update is cancelled and the basic flow is restarted at the beginning.

* + Delete cancelled:

If in the delete sub-flow, the Operator decides not to update the movie information, the update is cancelled and the basic flow is restarted at the beginning.

* 1. Pre-condition:

The Operator must log onto the system before this use case begins.

* 1. Post-condition:

If the use case was successful, the movie information is added, update, or deleted from the system. Otherwise, the state is unchanged.

* 1. Special Requirements:

None

* 1. Extension Points:

None

1. **Customer Info Management:**
   1. Brief Description:

This use case describes how a customer can create and manage his online account. This allows customer to access the movie and theater details and to book a movie ticket online.

* 1. Actors:

The actor with role of ‘Customer’ interacts and participates in this use case.

* 1. Flow of Events:
* Basic Flow:
  + Create an account:

This system requests the Customer to enter the following information on the website’s Create New Login option on the Login Page. This includes the following:

* + - Account Name
    - Email Id
    - Date of Birth
    - Password
    - Confirm Password
    - A checkbox to agree all the terms and condition

Once the customer provides the requested information, the customer details are added to the system and an afresh account webpage opens.

* + Manage the account:

This system requests the customer to enter the following information on the website’s Exiting Login option on the Login page when he wishes to change the password of his/her login id. This includes the following:

* + - Account Name
    - Password

Once the customer provides the requested information, his/her account page opens.

The customer can change the password of his/her account if he/she wants. The customer enters his account id, current password and the new password and clicks confirm change. The success message is displayed henceforth.

The customer can also retrieve his/her password if in case, he has forgotten it. While logging in the account, he/she clicks forgot password. A new screen appears which makes the customer enter his/her email id and user account name. Once the customer supplies with the above information a success message is displayed henceforth and an email is sent to the mentioned email id which contains the password.

* + Delete an account:

This system requests the customer to enter the following information on the websites Exiting Login option on the Login page when he wishes to delete his/her login id. This includes the following:

* + - Account Name
    - Password

Once the customer provides the requested information, his account page opens. The customer clicks on delete user account. The system prompts the customer to confirm the deletion of the account. The customer confirms the deletion. The system deletes the account.

* Alternative Flow:

Invalid Account Name/Password

If in the Basic Flow, the actor enters an invalid name, password and/or role, the system displays an error message. The actor can choose to either return to the beginning of the Basic Flow or cancel the login, at which the use case ends.

* + Account creation process cancellation:

If in the account creation sub-flow, the customer decides not to create the account, the process is cancelled and the basic flow is restarted at the beginning.

* + Account managing process cancellation:

If in the account managing sub-flow, the customer decides not to change the password of the account, the process is cancelled and the basic flow is restarted at the beginning.

* + Account deletion process cancellation

If in the account deletion sub-flow, the customer (on request) decides not to delete the account, the process is cancelled and the basic flow is restarted at the beginning.

* 1. Pre-condition:

The user must know the cinema website.

* 1. Post-condition:

If the use case was successful, the account is created and managed well.

* 1. Special Requirements:

None

* 1. Extension Points:

None

1. **User Account Info Management:**
   1. Brief Description:

This use case describes how Admin can manage the accounts of all the users.

* 1. Actors:

The actor with role of ‘Admin’ interacts and participates in this use case.

* 1. Flow of Events:
* Basic Flow:

This use case starts when the Admin wishes to manage the accounts of all the users. The system requested the Admin to enter his/her name and password. The Admin enters his/her name and password. This system validates the entered name and logs the actor into the system. The system allows the Admin to view and keep a track of the users.

* Alternative Flow:

Invalid Account Name/Password

If in the Basic Flow, the Admin enters an invalid name and/or password, the system displays an error message. The Admin can choose to either return to the beginning of the Basic Flow or cancel the login, at which the use case ends.

* 1. Pre-condition:

The Admin must know the cinema website.

* 1. Post-condition:

If the use case was successful, the Admin can view the details of all the users.

* 1. Special Requirements:

None

* 1. Extension Points:

None

1. **Payment Info Management:**
   1. Brief Description:

This use case allows the actor with the role ‘Admin’ to maintain payments details and actor with the role ‘Customer’ to make payment online.

* 1. Actors:

The following actors interact and participate in this use case:

* Admin
* Customer
  1. Flow of Events:
* Basic Flow:

This use case starts when the Customer wishes to make online payment for the booked movies. The system requests for all the necessary details to make payment. The payment details are submitted and the Admin manage them and keep a record. The system allows the customer to add, modify and delete the payment details.

The system requests the customer to choose the function accordingly. Once he/she provides the requested information, one of the sub-flows is executed:

* + - If the customer selected “Add a payment detail” the ADD PAYMENT DETAILS sub-flow is executed.
    - If the customer selected “Update a payment detail” the UPADTE PAYMENT DETAILS sub-flow is executed.
    - If the customer selected “Delete a payment detail” the DELETE PAYMENT DETAILS sub-flow is executed.
    - If the customer selected “View a payment detail” the VIEW PAYMENT DETAILS sub-flow is executed.

1. Add a payment detail:

The system requires that the customer enters the payment details

Amount received

Unique ticket id

Card details

Once the customer provides the requested information, the payment detail is added to the system and an appropriate message is displayed.

1. Update a payment detail:

The system requires that the customer enters customer ticket Id. Once the customer enters the ticket id of the computer the system retrieves and displays the list of all details. Also the system displays the requisitions for deposits (if any), and the current deposit details of the particular customer. Customer makes the desired changes to the payment details. This includes any of the information specified in Add a payment detail sub-flow. Once the customer makes changes to the payment details, the system updates payment details with the updated information.

1. Delete a payment detail:

The system requires that the customer enters ticket id. Once the customer enters ticket id the system retrieves and displays the list of details. This includes any of the information specified in the Add payment details sub-flow. The system prompts the customer to confirm the deletion of the payment details. The customer confirms the deletion. The system deletes the payment details.

1. View a payment details:

The system requests that the customer enter the ticket id. Once the customer enters the ticket id the system retrieves and displays the entire details specific to the customer. This includes Name and ticket id.

* Alternative Flow:
  + Payment details not found:

If in the Update payment details, View payment details or Delete payment details sub-flow, customer ticket id does not exist, and the system displays an error message. The customer can then enter a new ticket id or can cancel the operation, at which point the use case ends.

* + Update cancellation:

If in the Update payment details sub-flow, the customer decides not to update the payment details the update is cancelled and the basic flow is restarted at the beginning.

* + Delete cancellation;

If in the Delete payment details sub-flow, the customer decides not to delete the payment details, the delete is cancelled and the basic flow is restarted at the beginning.

* 1. Pre-condition:

The customer must have a user account, prior to accessing the use case.

* 1. Post-condition:

If the use case was successful, the payment details is added, updated, viewed, or deleted from the system. Otherwise, the system is unchanged.

* 1. Special Requirements:

None

* 1. Extension Points:

None

**VI. REPORT GENERATION**

1. Brief description:

This use case documents the procedure for generating the reports as desired by the operator.

1. Actors:

The actor with role of ‘Operator’ interacts and participates in this use case.

1. Flow of Events:
   * Basic Flow:

This use case starts when a operator wants to generate reports of movie statistics, theater statistics, and member details.

* The operator selects the criteria and enters the various parameters based on the criteria selected.
* The system generates the report and sends to the printer.
* The use case ends.
* Alternative Flow:

Printer out of paper or low on ink:

If the printer goes out of paper or low on ink, then the printing operation is aborted and the necessary action needs to be taken. The use case ends.

1. Pre-condition:

Operator must be logged into the system.

1. Post-condition:

If the use case is successful, the various reports, regarding the details of the movie, theater and members at any time, are generated.

1. Special Requirements:

None

1. Extension Points:

None