

Cinema Online Ticketing System

Part I

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OVERVIEW

The cinema online ticketing system is a web-based system for the cinema manager to manage the selling of movie tickets and for customers to buy tickets. This system follows the business rules of the cinema selling tickets. It stores title, description, poster, screening room, time and ticket price of all the movies on, order information of all customers, and all account information. Multiple users can access this system at the same time and the information shown on the webpage is persistent.

FEATURES

Feature A

A cinema manager is able to manage films, orders and customer accounts in the system. For film, the manager can add a new film to the system or delete films from the system. The manager can also view the list of existing films in the system and edit the title, description, film poster, time, screening room and ticket price of a film. As to orders and customer accounts, the manager has the permission to view all order information and account information.

Feature B

A customer can view all movies now playing in the cinema with detailed information and buy the ticket of these films after logging in. If the customer does not have an account, he or she can register. A customer is able to check the order history as well.

USE CASES

Feature A

The use case diagram of feature A is shown in diagram 1.

UC1: Log in

- Primary actor: cinema manager
- Precondition: No account is logged in.
- Main success scenario:
 1. The cinema manager clicks login button.

2. The cinema manager inputs the username and password which is a valid cinema manager username and password.
3. The cinema manager clicks the log in button.
4. The system jumps to home page for cinema manager.
- Alternative scenarios:
 - 2a. The cinema manager inputs the username and password which is not a valid cinema manager username and password:
 1. The cinema manager clicks the log in button.
 2. The system stays at Login page with the warning that the username or password is incorrect.
 - 2b. The cinema manager inputs no username or password:
 1. The cinema manager clicks the log in button.
 2. The system stays at Login page with the warning that the username or password is empty.

UC2: Log out

- Primary actor: cinema manager
- Precondition: The cinema manager has logged in to the system.
- Main success scenario:
 1. The cinema manager clicks the log out button.
 2. The system jumps to Login page.

UC3: Add a new film

- Primary actor: cinema manager
- Precondition: The cinema manager has logged in to the system.
- Main success scenario:
 1. The cinema manager clicks the add film button.
 2. The system jumps to Add New Film page.
 3. The cinema manager inputs the title, description, time, screening room and ticket price of a film and uploads the film poster of that film.
 4. The cinema manager clicks the submit button.
 5. The system shows a success message and jumps to the home page.
- Alternative scenarios:
 - 3a. The cinema manager misses some information of the film:

1. The cinema manager clicks the submit button.
2. The system shows a warning message and highlights the text box of missing information.

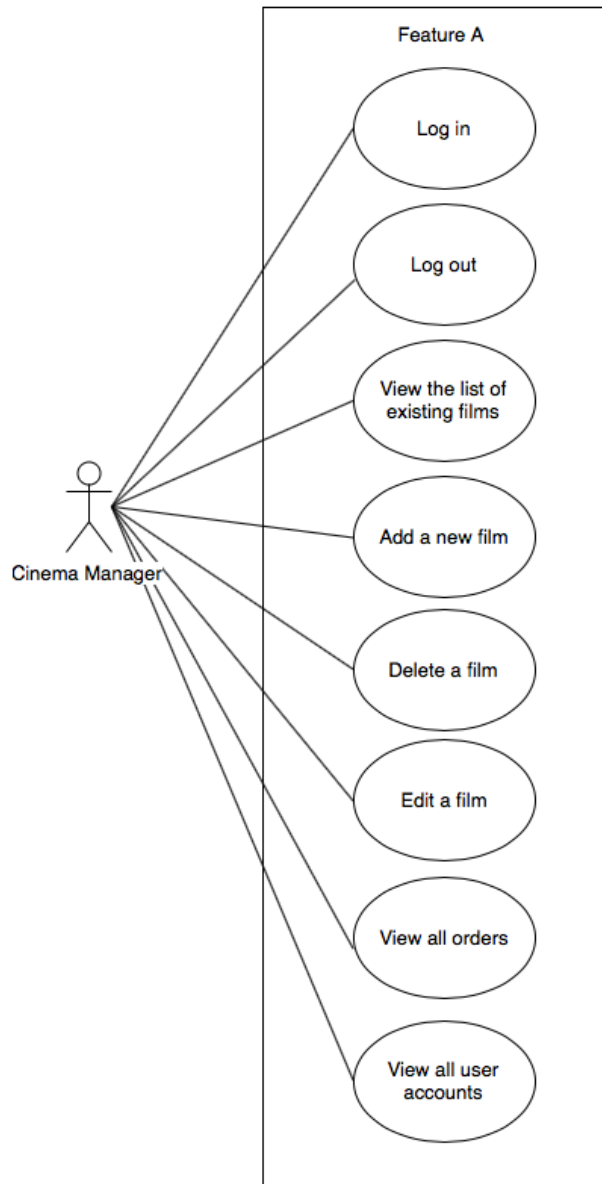


Diagram 1

UC4: Delete a film

- Primary actor: cinema manager
- Precondition: The cinema manager has logged in to the system and in the homepage.

- Main success scenario:

1. The cinema manager clicks the delete button of a film which stops playing in the film list.
2. The system shows a confirmation popup message.
3. The cinema manager clicks the yes button of the confirmation message.
4. The system deletes the film.
5. The system refreshes the film list in the page.

- Alternative scenarios:

3a. The cinema manager clicks the no button of the confirmation message:

1. The system hides the confirmation message and the page remains the same.

4a. The film that the cinema manager chooses to delete a film that is still on:

1. The system shows an error message and the page remains the same.

UC5: Edit film information (title, description, film poster, time, screening room and ticket price)

- Primary actor: cinema manager

- Precondition: The cinema manager has logged in to the system and in the homepage.

- Main success scenario:

1. The cinema manager clicks the edit button of a film in the film list.
2. The system jumps to the edit page of that film (with the detailed information pre-filled).
3. The cinema manager changes the information of the film.
4. The cinema manager clicks the submit button.
5. The system shows a success message and jumps to the homepage.

- Alternative scenarios:

3a. The cinema manager deletes some information of the film and remains that information field empty:

1. The cinema manager clicks the submit button.
2. The system shows a warning message and highlights the text box of the missing information.

UC6: View customer account information

- Primary actor: cinema manager
- Precondition: The cinema manager has logged in to the system.
- Main success scenario:
 1. The cinema manager chooses the 'customer account' in the navigation bar of the homepage.
 2. The system jumps to the customer account page showing a list of customer account information with the username and password of each account.

UC7: View customer order information

- Primary actor: cinema manager
- Precondition: The cinema manager has logged in to the system.
- Main success scenario:
 1. The cinema manager chooses the 'customer order' in the navigation bar of the homepage.
 2. The system jumps to the customer order page showing a list of order information with the username, order status, time, number of tickets and reference number of each order.

Feature B

The use case diagram of feature A is shown in diagram1.

UC8: Register a new account

- Primary actor: customer
- Precondition: No account is logged in.
- Main success scenario:
 1. The customer clicks the login button.
 2. The customer clicks the register new account on Login page.
 3. The system jumps to Register new account page.
 4. The customer inputs a username and a password.
 5. The customer clicks the register button.
 6. The system jumps to home page for customer.
- Alternative scenarios:

- 4a. The customer inputs no username or password:
1. The customer clicks the register button.
 2. The system stays at Register new account page with the warning that the username or password is empty.
- 4b. The customer inputs a username that already exists:
1. The system stays at Register new account page with the warning that the username already exists.

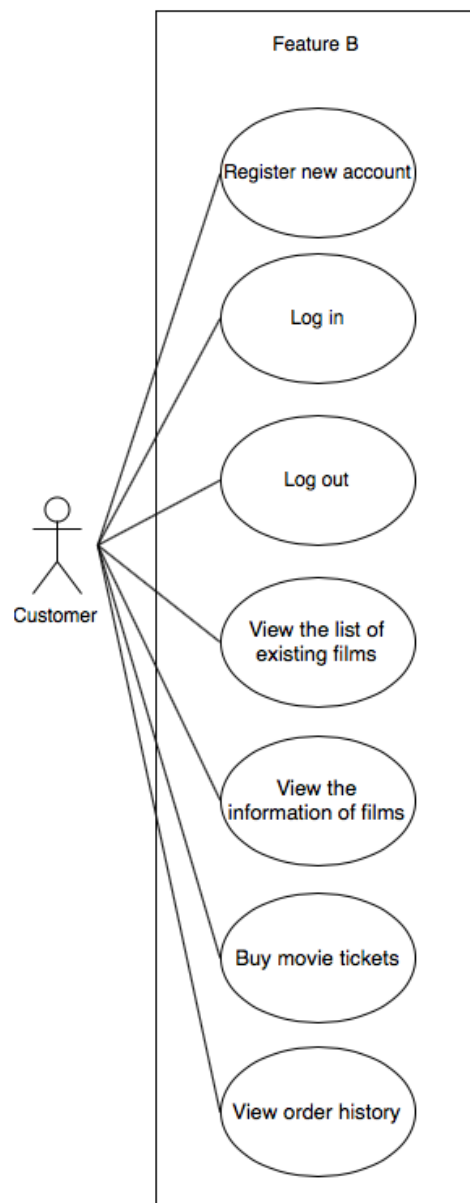


Diagram 2

UC9: Log in

- Primary actor: customer
- Precondition: No account is logged in.
- Main success scenario:
 1. The customer inputs the username and password which is a valid customer username and password.
 2. The customer clicks the log in button.
 3. The system jumps to home page for customer.
- Alternative scenarios:
 - 1a. The customer inputs the username and password which is not a valid customer username and password:
 1. The customer clicks the log in button.
 2. The system stays at Login page with the warning that the username or password is incorrect.
 - 1b. The customer inputs no username or password:
 1. The customer clicks the log in button.
 2. The system stays at Login page with the warning that the username or password is empty.

UC10: Log out

- Primary actor: customer
- Precondition: The customer has logged in to the system.
- Main success scenario:
 1. The customer clicks the log out button.
 2. The system jumps to Login page.

UC11: View the information of a movie (title, description, film poster, time, screening room and ticket price)

- Primary actor: customer
- Precondition: The customer is at the home page.
- Main success scenario:
 1. The customer clicks a movie in the movie list.
 2. The system jumps to the movie detailed information page.

UC12: Buy movie tickets

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- Primary actor: customer
 - Precondition: The customer has logged in and is at the movie detailed information page.
 - Main success scenario:
 1. The customer chooses a time.
 2. The system jumps to the ticket buying page.
 3. The customer selects the number of tickets.
 4. The system jumps to seats selecting page.
 5. The customer selects valid seats in accordance with the number of tickets selected in step 3.
 6. The customer pays for tickets successfully.
 7. The system jumps to ticket confirmation page.
 - Alternative scenarios:
 - 5a. The customer selects seats that are more than or less than the number of tickets selected in step 3:
 1. The system stays at seat selecting page with the warning that the number of seats selected is incorrect.
 - 6a. The customer fails to pay for tickets:
 1. The system reminds the customer that the payment fails.
 2. The system jumps to the home page after 5 seconds.

UC13: View order history

- Primary actor: customer
- Precondition: The customer has logged in.
- Main success scenario:
 1. The customer clicks past orders button.
 2. The system jumps to order history page showing all the orders of the customer with order status, time, number of tickets, cost and reference number.