

Team 23 - cinema management system

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1.Introduction:

a user friendly cinema management system that is initiated with staff authentication with unique id ,showing movies ,synchronized seat number and ticket id ,addition of products price if needed to ticket price ,secured system against bugs ,and be linked to other cinema management systems.

2.User Requirements

- The system shall show a list of all movies available in the day.
- Each movie shall include it's cast of actors ,directors and writers and it's playing schedule.
- When a customer orders a ticket the system shall show a list of the available seats in the hall ,and record the customer data.
- The system shall be able to manage the food area and add the customer order's price to the ticket.
- The system shall generate monthly report showing the financial income of each movie automatically.
- Each employee shall be able to authenticate himself using his identity card.
- The system shall have a record of all employees personal Information, balances and working hours.
- The system tickets shall be synchronized with seat number in each hall to ensure no conflicts within user seats.

3. Functional Requirements:

1.Movie List:

- _ Description: system shows available movies everyday.
- _ Input : Movies
- _ source : Movies Table from Database
- _ Precondition : Movies availability
- _ Post-condition : a list of movies will be displayed for user
- _ Output : Movie List

2.Ticket synchronization :

- _ Description : tickets should have the same reserved seat number.
- _ Input : Seat number
- _ source : Available Seats Column from database
- _ Precondition : Available Seats
- _ Post-condition : synchronized ticket with seat number
- _ Output : no conflict with reservations

3.Authentication :

- _ Description : Employee should login to the system
- _ Input : unique 4-digit id
- _ source : Employee table from database
- _ precondition : id provided
- _ post-condition : successful login
- _ Output : get access to the system

4.Food Court management:

- _ Description : system manages product prices
- _ Input : product + ticket id
- _ Source : products table + ticket table
- _ precondition : customer choose a product
- _ post-condition : add product price to the ticket
- _ Output : receipt

5.Financial Monthly Report :

- _ Description : Collecting of Sold Movie tickets and products
- _ Input : ticket id
- _ Source : ticket table
- _ precondition : end of the month
- _ post-condition : generate financial income
- _ Output : monthly report

3.Non-Functional Requirements:

- 1.the system shall be protected against bugs and glitches.
- 2.the system shall will be running during working hours with maximum down time 10 seconds per hour.
- 3.the system shall be operating properly on win10.
- 4.the system shall be implemented with c# lang and oracle database management system.
- 5.the staff should be able to use the system after one day of training.