Movie Ticket Ordering System

Version 1.0

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# Purpose

The customer GVC(Greater Victoria Cinema) is preparing to start movie business and needs to operate Movie Ticket Purchase system for their customers’ convenience.

# Scope

## 2.1 In-Scope

|  |  |
| --- | --- |
| **No** | **Description** |
| R1 | Display information about the movie  – the title, the main actor(s) and rating. |
| R2 | If the rating is restricted, the customer may not purchase any tickets for child/children. |
| R3 | The system provides an appropriate message to the customer when a movie is not available and why  – cancelled showing, sold out. |
| R4 | The interface must be as simple as possible;  preferably an interface where the user just clicks radio buttons or checkboxes. |
| R5 | The total owing (including a breakdown of taxes) must be displayed to the customer. |
| R6 | The ability to choose the type of payment.  - The ability to pay with debit or credit card. |
| R7 | The ability to processes the payment and return the appropriate message to the customer  (approved, rejected – for example, a credit card always has 16 digits and valid expiry). |
| R8 | The ability to print out a receipt (you do not need to send to printer, just print to the screen). |
| R9 | The ability to print tickets (you do not need to send to printer, just print to the screen). |
| R10 | Update the number of seats available for any movie (hidden). |
| R11 | A message to inform the customer that refunds can only be done through a ticket sales representative. |
| R12 | The ability to purchase a ticket up to one week in advance |
| R13 | The ability to purchase more than one ticket at a time |
| R14 | The ability to purchase tickets for more than one movie. |
| R15 | The ability to select the day of the movie |
| R16 | The ability to select the time of the movie |
| R17 | The ability to select the rate of the ticket(s) – adult, child, senior. |

## 2.2 Out-Scope

|  |  |
| --- | --- |
| **No** | **Description** |
| NR1 | The ability to cancel a transaction in its entirety or just a portion of the transaction. - Only cancel it through a ticket sales representative. |

# Definitions

## 3.1 Actor

Administrator: Enroll, modify, delete movie information (title, rate, price, time)  
Customer: Search the movies based on time, rate and purchase it

Payment Company: Provide payment process in 2 ways credit and debit

## 3.2 Administrator

Check the available seats  
Enroll movie information and modify it

## 3.3 Attribute

Movie name: the title of the movies

Movie price: price of the movie based on time and day

Movie rate: movies are categorized based on 5 cases such as G, PG, PG13, R, NC17

Movie time: scheduled time of the movies

Available seats: each movie has the available seats

Payment type: credit and debit  
Payment date: the date of complete payment

Ticket number: unique number for paid movie  
Ticket quantity: the quantity paid for a movie  
Movie main actors: the names of main actors of a movie

## 3.4 Class

Movie: movie number, title, time, rate, price type, main actor name and available seat

Price: price type, age, price  
Customer: ticket number  
Ticket: ticket number, movie number, quantity, payment date, payment type and card number

## 3.5 Customer

Display the movie and check the title, rate, price, time   
Pay the price   
Print the receipt

## 3.6 Database System

Stores the movie, payment information such as times, ticket number. All data is changeable by a manager.  
All data is stored as a file type.

## 3.7 Electronic Payment

Processes the payment and retrieves validation information for a customer transaction.  
Card number is fixed 16 digits.

## 3.8 Interface

Payment request is sent to credit company and gets the result

## 3.9 Manager

Display the paid ticket information  
Manage a movies for adding, modifying and deletion information

## 3.10 Method

Display the movie  
Pay the movie  
Check the price  
Check the validation by rate

## 3.11 Movie

Title, Rate, Price based on the cases, Time

## 3.12 Object

Movie

Ticket

Price Type

## 3.13 Operation

Display the movie  
Pay the movie  
Check the price  
Check the validation by rate

## 3.14 Parameter

Payment Type  
Price Type  
Age  
Time  
Quantity  
Date

## 3.15 Scenario

A customer displays a movie and gets the list of movies meet the search condition such as time, rate

A customer pays the tickets and gets the result and valid ticket numbers.

## 3.16 Showing

A specific movie playing at a specific time, rate.

## 3.17 Transaction

A customer pays the price after choosing a movie, time, quantity.

## 3.18 Use-case

A customer gets the message, if there is no available seat.

Movie lists will be shown by searching it with some conditions

A customer pays the price and gets the receipt