Movie Ticket Management System

Requirement Analysis

The project we choose is Movie ticket booking management system.

Generally when people want to book tickets for any movie of their choice, in a traditional way they reach the theatre of their choice and then try to buy tickets from the counter. It is not always guaranteed that they get the tickets there and hence there is a need for an automated system which could help them in booking the tickets

This project basically aims to automate the task of booking tickets for a user.It improves the efficiency of buying movie tickets by reducing the time, effort and cost as well. It eliminates the manual errors that might occur at a ticket booking counter and the endless waiting is eradicated.Also making the process easy thus satisfying and making the user comfortable in performing his task so that he uses the application multiple times.

We include the following entities for our project:

1. User(Customer)
2. Movie
3. Theatre
4. Payment

5. Ticket Booking Application

User/Customer:

The actual person who uses the application. He chooses the movie and the theatre of his choice and makes the payment through the ticket booking application available

Movie:

The entity movie entirely describes about the movie or the show i.e. it describes about what movie it is and at what time the actual show is scheduled for and the other important details that a user have to know to watch the movie

Theatre:

The Theatre specifies the location of the theatre and related information

Payment:

Payment entity gives the user an option to pay for his product(a movie ticket here) it deals with the transaction details such as payment mode etc.

Ticket Booking Application:

It interconnects the information from the other entities i.e. Movie, theatre, customer and payment.

Entities and Attributes:

1. User/Customer

a. Customer ID: Primary Key

b. Customer Name (composite attribute: first name and last name)

c. Customer Phone Number(Contact Details): multi valued

d. Customer Address

2. Payment:

a. Payment ID: Primary Key

b. Customer ID: Foreign Key

c. Amount

d. Payment Mode

e. Status/Invoice (after a successful payment)

3. Movie

a. Movie ID: Primary Key

b. Movie Name (not null)

c. Movie Date and Time

d. Movie Duration

4. Theatre

a. Theatre ID: Primary Key

b. Theatre Name

c. Theatre location

5. Ticket Booking Application

a. Movie ID: Foreign key

b. Customer ID: Foreign key

c. Theatre ID: Foreign key

d. Ticket number: multi valued (Since a person can buy multiple tickets)

Relationships:

Customer "selects" movie

Customer "chooses" theatre

Customer "makes" payment

Ticket is "booked" for Movie

Payment "for" Ticket Booking Application