

Description of classes: (Jayce Ferris)

Movie:

Used in order to organize and manage the available movies, including all information associated with each movie including name, time, and location. Used by theater admin in order to create and update movie information.

Description of Attributes:

- MovieTitle
 - Type: Char
 - Use: Identifies the title of the movie in order for users and admin to keep track of the various films available at a give time.
- MovieShowingTime
 - Type: DateTime
 - Use: Specifies the individual screenings of each title
- Venue
 - Type: Char
 - Use: Identifies the location of the given film

Admin:

Allows theater staff to manipulate movie class in order to keep up to date information about what movies are available at each time and location.

Description of Attributes:

- ID
 - Type: Char
 - Use: Helps organize and keep track of which admin changes are being completed by what employee/admin.
- Name
 - Type: Char
 - Use: Identifies an admin/employee by their name in order to more easily recognize who is making changes
- Password
 - Type: Char
 - Use: Secures admin accounts in order to ensure no unauthorized access by allowing for a sign in process.

Customer/Registered User:

Organizes customer and user base including personal information about each customer in order to create a personalized experience. Will allow user to access an account and purchase/manage movie viewings as well as view information about movies.

Description of Attributes:

- ID
 - Type: Char
 - Use: Identifies each individual user by a unique ID
- Name
 - Type: Char
 - Use: Identifies user by their name in order to track what products they are purchasing and to have a way to track by name.
- PhoneNum
 - Type: Integer
 - Use: Allows for contact to be made between employee and user in case of issues.
- Address
 - Type: Char
 - Use: Allows for personalized experience including the assistance in locating nearest theater.

Booking:

Deals with the process of purchasing and managing tickets for individual movie viewings. Automatically manages how many tickets are left for each individual viewing in order to organize what movies are available at what time in each location. Mainly information based with minimal intervention from admin or user.

Description of Attributes:

- TicketAvailability
 - Type: Integer
 - Use: Tracks the availability of a given screening for various purposes including revenue tracking, employee needs, as well as avoiding the overselling of a screening
- MovieTitle
 - Type: Char
 - Use: Associates the title of the movie with the other various information
- ShowNum
 - Type: Integer
 - Use: Identifies the precise screening the availability is for.
- Date

- Type: DateTime
- Use: Identifies the precise date of the screening the availability is for.
- Time
 - Type: DateTime
 - Use: Identifies the precise time of the screening the availability is for.
- Ven
 - Type: Char
 - Use: Identifies the precise location the screening is for.

Visitor:

Deals with non-registered users, allowing them access to the system in order to become registered or to view a movie.

Description of Attributes:

- Name
 - Type: Char
 - Use: Allows for system to have some type of identification of a user even if they are unregistered.

MakePayment:

Deals with all transactions between system and user. Allows user to purchase tickets for movies as well as to cancel any unwanted transactions.

Description of Attributes:

- ID
 - Type: Char
 - Use: Allows for each individual transaction to identify who is creating the transaction.
- Total
 - Type: Float
 - Use: Communicates to the user how much is owed.
- TransacID
 - Type: Integer
 - Use: Allows for each individual transaction to have an identifier
- UserId
 - Type: Char
 - Use: Tracks which user is making a transaction