

#### Movie:

The Movie class holds all data regarding the specific movies showing in theaters, including: movie name, show dates, showtimes, screen numbers, ratings of the movies, what theaters are showing what movies, the seats positions at the theaters, and if there's open seating in the theaters. This data can be manipulated within the class to set and get any of the aforementioned info.

#### Ticket:

The Ticket class holds information regarding ticket info, such as the particular seat number indicated by a character and then an integer, ex. K19, the price of the ticket indicated by a double, ex. 12.99, and the status of the seat such as whether it's an open seat or a reserved purchase seat. This information can be manipulated within the class to buy the ticket which will call PearPay, view the ticket, transfer the ticket, and display whether the max amount of tickets, 10, are bought by one user.

#### Location:

The Location class holds all relevant data for the location of the theaters registered on CheepTIX.com. The class holds an array of all of the movies at a particular location, displays the ratings of the movies at a particular location, holds a seat map of the theaters at a particular location, and displays whether a theater is signed up for the rewards system compatible with CheepTIX.com. The Location class has functions including updating the movie at a location and checking the current seat occupancy of a location.

#### AccountInfo:

The AccountInfo class holds information regarding the account of a user, such as passwords, usernames, phone numbers, email addresses, and their credit card information. This class pertains more to logging in and verifying that the account exists within the system, and will also be implemented with security protocols to ensure only authorized accounts can log in to the system.

#### UserInfo:

The UserInfo class holds information for a user's account, but differs from the AccountInfo class in that the variation in user profiles are held in this class. This consists of the variable information such as whether a user is a rewards member, how many points they have if they are a rewards member, whether they are a student, senior, or in the military. This data has functions that can

#### EmployeeInfo:

The EmployeeInfo class holds all the information about employees at CheepTIX.com. This includes whether they are just an employee or have managerial status, and allows employees to update movies, delete movies, add movies, verify a user's rewards status via their sticker, and nullify user tickets if fraud is suspected.

IMDbRT:

The IMDbRT class contains the database information from IMDb and Rotten Tomatoes. These two movie review sites hold valuable information such as the movie's cast list, reviews from critics, synopses, and additional information about the movie. This class has been simplified for easy viewing of the UML and a simple call to the SQL database is contained within the class, but this class would contain its own expanded UML as well.

PearPay:

PearPay is the proprietary payment system for CheepTIX.com. The class contains information such as the transaction ID for a payment, the user's ticket information, and a valid credit/debit card. This information is authenticated to allow the user to purchase their ticket(s), and checks to see if the maximum number of tickets have been purchased.