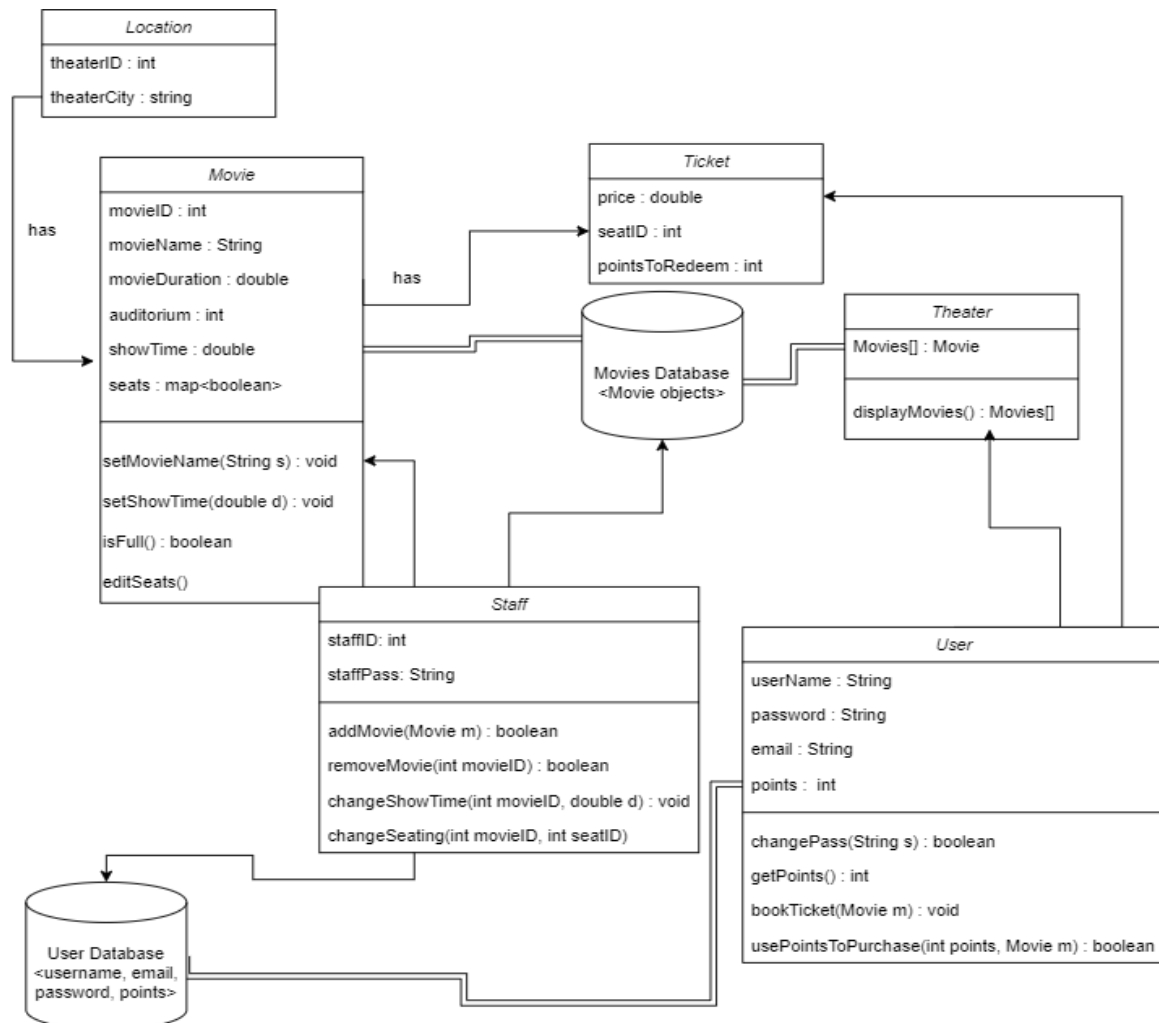


Movie Theater Test Plan

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1. Software Design Specification:



User:
 userName : used to log in
 password : used to log in
 email
 points : used for redeeming for movie tickets
 changePass(String s) : method for changing the password
 getPoints() : return the number of points you account has
 bookTicket(Movie m) : method used to book a ticket for a specific Movie Object
 usePointsToPurchase(points, Movie) : return true if your points allow you to get a ticket for the Movie

Staff:
 staffID : used to log in as staff
 staffPass : used to log in as staff
 addMovie(Movie m) : allows the staff to add a movie object to the Movie Database
 removeMovie(int movieID) : allows the staff to remove a movie from the Movie database
 changeShowTime(int movieID, double d) : allows the staff to change the showtime of a movie in the database
 changeSeating(int movieID, int seatID) : Allows a staff member to change the seating of a customer

Location:
 theaterID : used to identify theater by exclusive ID
 theaterCity : used to identify city address of theater

Ticket:
 price : used to display cost per ticket in USD
 seatID : used to identify theater seat number for assigned seating
 pointsToRedeem : used to display the number of points needed to redeem a ticket

Theater:
 Movies[] : array list with available movies stored as elements
 displayMovies() : returns all elements of Movies[] in most recent to oldest order

Movie:
 movieID : used to identify the movie's with its unique ID
 movieName : used to identify the movie's name
 movieDuration : used to identify the duration of the movie
 auditorium : used to display the auditorium number where the movie is held in
 showTime : used to display the movie's showtime
 seats : used to get the availability of the movie's seats from the Movies database
 setMovieName(String s) : allow the staff to set the movie's name
 setShowTime(Double d) : allow the staff to set the movie's showtime
 isFull() : returns true if the seats for the movies are full, else returns false
 editSeats() : displays seat boolean map in which the person acceding it can click specific seats to change their values

Data Dictionary

2. Verification Test Plan:

Unit Testing:

- **Test Set 1:**
 - Test 1 : This test is for verifying that users will be able to change their passwords if their accounts are at potential risk of compromise, they have forgotten it, or they simply prefer to at their own discretion. If successfully implemented, users will gain access to their account with their new password and will no longer have entry by inputting their previous password.
- **Test Set 2:**
 - Test 2 : This test is for verifying if the users themselves can view the selection of available movie premieres with general additional information provided before they commit to a movie. The movies are dedicated to a vertical list with the information of showtimes and screens (IMAX, ScreenX, etc.) on the right side of each row.

Functional Testing:

- **Test Set 1:**
 - Test 3 : This test is for verifying the user that the login is incorrect and displays an error message for the incorrect username or password. This ensures that the user receives a message that they are inputting the wrong username or password in their login.
 - Test 4 : This test is for verifying that the user has purchased a ticket and receives their correct ticket for the movies. This ensures that the user has the ticket from either online or in person after purchasing any movie ticket and has that the ticket has displayed the correct movies that the user chose.
- **Test Set 2:**
 - Test 5: This test is for the verification of if a movie showing is full. It ensures that a user cannot purchase a ticket if that showing is full and causes an error message to appear to let the user know that it is full.
 - Test 6: This test is for the verification that when a user clicks on a movie showtime, the user is redirected to the correct showing for ticket purchase. It ensures that users are sent to right showing when purchasing tickets.

System Testing:

- **Test Set 1:**
 - Test 7 : This tests is for verification of uploading a movie list to the movie database by a staff member. It ensures that the database has be updated with the added movie list.

- Test 8 : This test is for verification of a seat change done by a staff member. It ensures that the old seat and new seat status has been updated, i.e. the movie seat boolean map has been updated.
- **Test Set 2:**
 - Test 9 : This test is for verification that the user is able to access the website on multiple web browsers and devices with different resolutions and screen sizes with varying low-high internet connectivity.
 - Test 10 : This test is for verification that the user is able to visibly see the imagery and media outputted by website such as scaling of descriptions of the movie or resolutions of images as they are not too blurry or too big while able to load the media with fast response times.

3. Test Case Samples:

- Excel Sheet :
https://docs.google.com/spreadsheets/d/1_J6YsCjI9-iSH-ByuSZkqKsc5uW_shn6djGr7I90X9E/edit?usp=sharing