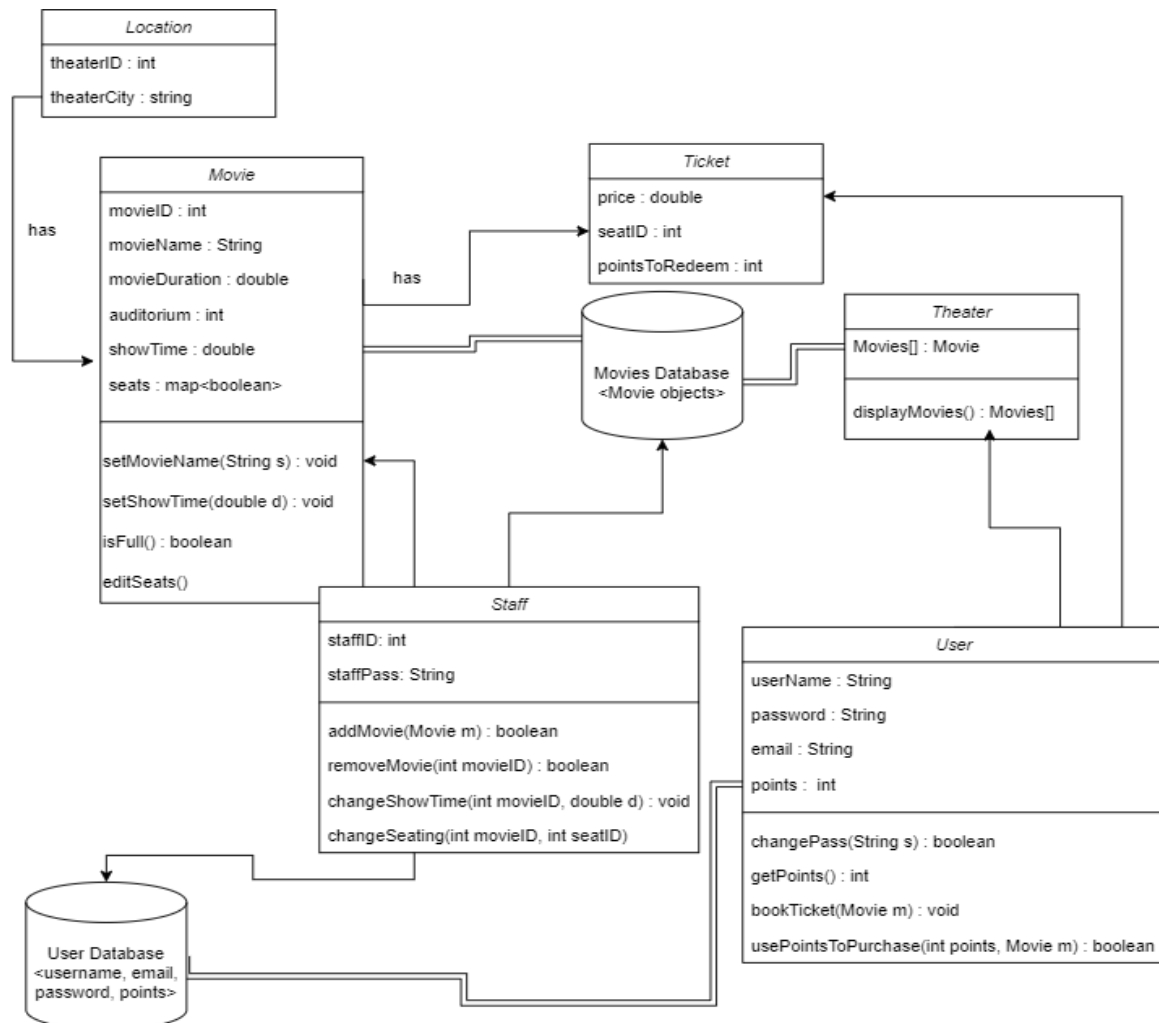


Movie Theater Test Plan

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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 :
- **Test Set 2:**
 - Test 2 :

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 :
 - Test 10 :

Objective: To verify that the system can successfully process a user's request to buy a movie ticket online including the selected movie, the seat, making a payment and receiving information about confirmation to their email or on the website.

Pre-conditions:

- User has internet connection
- User has a valid payment method
- User has logged into the system with valid information and navigated to the ticket purchasing page
- The movie theatre has open seats for the selected movie and showtimes

Steps:

1. Verify that the user can see the list of movies and showtimes
2. Verify that the user can select the movie and showtime
3. Verify that the system displays a seating chart for the movie and showtimes
4. Verify that the user can select a seat from the seating chart
5. Verify that the user can see the price of the ticket as well the purchase of the ticket
6. Verify that the user can input payment information into a payment form
7. Verify that the payment information is valid as well as display a confirmation page on the website and/or sending to email
8. Verify that the confirmation page shows the movie title, theatre location, showtime, seat number, and price.

Test Data:

- Movie: _____
- Showtime: _____
- Seat: _____
- Theatre Location: _____
- Payment Method: _____

Test Results:

1. PASSED - The user can see a list of available movies and showtimes.
2. PASSED - The user can select a movie and showtime.
3. PASSED

3. Test Case Samples:

- Excel Sheet :

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