

Project Title: Cinema Management System

Cinema Management System

Description:

This project helps you perform different actions related to cinema booking. Using this system the user can book a ticket from the list of available movies that are stored in a file.

The movies have show timings, genres as well as ratings to search for as well as the sort. The ticket can be canceled by the user. Tasks:

Each of the following tasks should have a minimum of 5 - 8 subtasks (each with a corresponding function):

a) RESERVATION

What do you do in this task?

// Describe one bullet point for each of the subtasks

- Load bookings:
 - Description:
 - Here, we are going to add all the attributes(variables/functions) which are needed to create a booking.
 - Class Diagram
 - Title represents the class name
 - Second part represents member variables
 - Third part represents the member functions
 - Use – and + symbols to represent **private** and **public** member variables/functions
 - Booking

Booking
<ul style="list-style-type: none">– person name;– seat number;– mobile number;– Discount amount;–Tax;–Final Price;+movie's list.+movie name.+number of screens.+number of seats.+ticket price.+genre.

+Rating. +show timings.
+SetPersonName(); +GetPersonName(); +SetMobileNumber(); +GetMobileNumber(); +SetDiscountPrice(); +GetDiscountPrice();

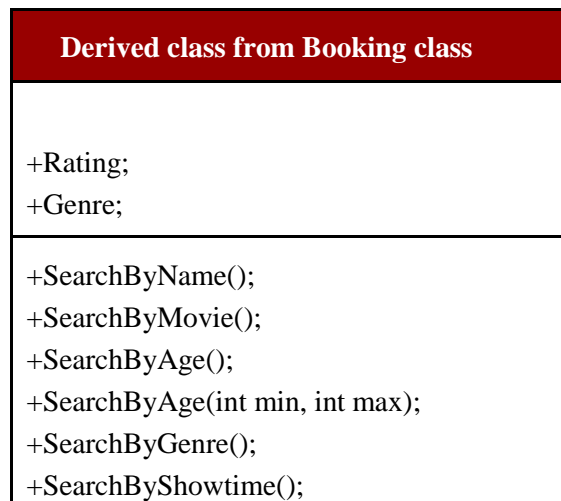
- **Create new booking:**
 - **Description:**
 - Here we are going to generate a new booking ,after creating user can choose their respective choices.
- **View booking:**
 - **Description:**
 - Here we are going to view and print the booking details.
- **Estimate Ticket Price:**
 - **Description:**
 - Here we are going to return ticket price based ontheir type of booking(Platinum, Gold, Elite)
- **Apply discounts:**
 - **Description:**
 - In this discounts are going to be applied for each booking based on their bookings and number ofseats.
- **Get Estimate of taxes:**
 - **Description:**
 - Here we are apply taxes like GST ,etc for thetickets booked, based on final price ,the taxes are to be applied.
- **Get Final Booking Price:**

- **Description:**
 - Here we are going to return the final booking price of a particular booking
- **Confirm Booking:**
 - **Description:**
 - Here, we are going to confirm from users regarding their booking, if they want to change anything, they can change.

b) **SEARCH BOOKING**

// Describe one bullet point for each of the subtasks Load bookings by Specific field:

- **Description:**
 - Class Diagram:
 -



Search bookings by Name:

- **Description:**
 - In this, we are going to search for a particular booking with a name.

Search bookings by Rating:

- **Description:**
 - In this, we are going to search for a particular booking with a movie rating.

Search booking by Genre:

- **Description:**
 - In this, we are going to search for a particular booking with a particular type of genre.

Search Bookings by showtime:

- **Description:**

- In this, we are going to search for a particular booking with a particular show timing.

c) **MODIFY BOOKING-**

Load bookings by primary key:

- **Description:**
 - Here we are going to load changes of a particular booking according to a primary key.
 - Class Diagram:
 -

Derived class from Booking class
<pre> +ModifyBookingByName(); +ModifyBookingByDiscounts(); +ModifyBookingBySeatNumber(); +ConfirmModification(); +UpdateModification(); </pre>

View booking by specific key:

- **Description:**
 - Here we are going to view a booking by a specific key(name or seatnumber etc.)

modify the booking by applying discounts:

- **Description:**
 - Here, we are going to modify the booking by increasing or decreasing the discounts, so that the final price will be changes

modify booking by changing name:

- **Description:**
 - Here, we are going to modify the booking by changingthe name of the person.

confirm modification of booking:

- **Description:**
 - Here, we are going to confirm from users regarding their booking, if they want to change anything, they can change.

Update Booking :

- **Description:**
 - Here we are going to update all the modifications done by the customer.

d) CANCELLATION

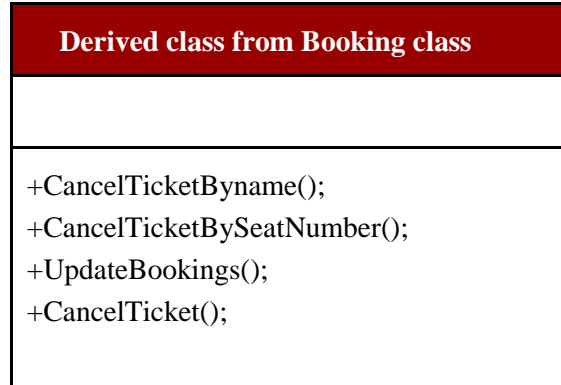
Load bookings:

- **Description:**

- Here we are going to cancel the booking according to a specific key.

- **Class Diagram:**

-



Cancel a specific ticket :

- **Description:**

- In this, we are going to cancel the booking by seat number. (i.e deleting the node).

Confirm cancellation:

- **Description:**

- Confirmation of the cancellation of that particular booking.

Update bookings:

- **Description:**

- We are going to update the booking list after cancellation of that booking.

Cancel ticket:

- **Description:**

- We are going to cancel the booking and mention the user, as opted by him/her.

