

Project Movie Ticket Reservation System

Team Name Option C

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COMP 301: Advanced Programming (Java)

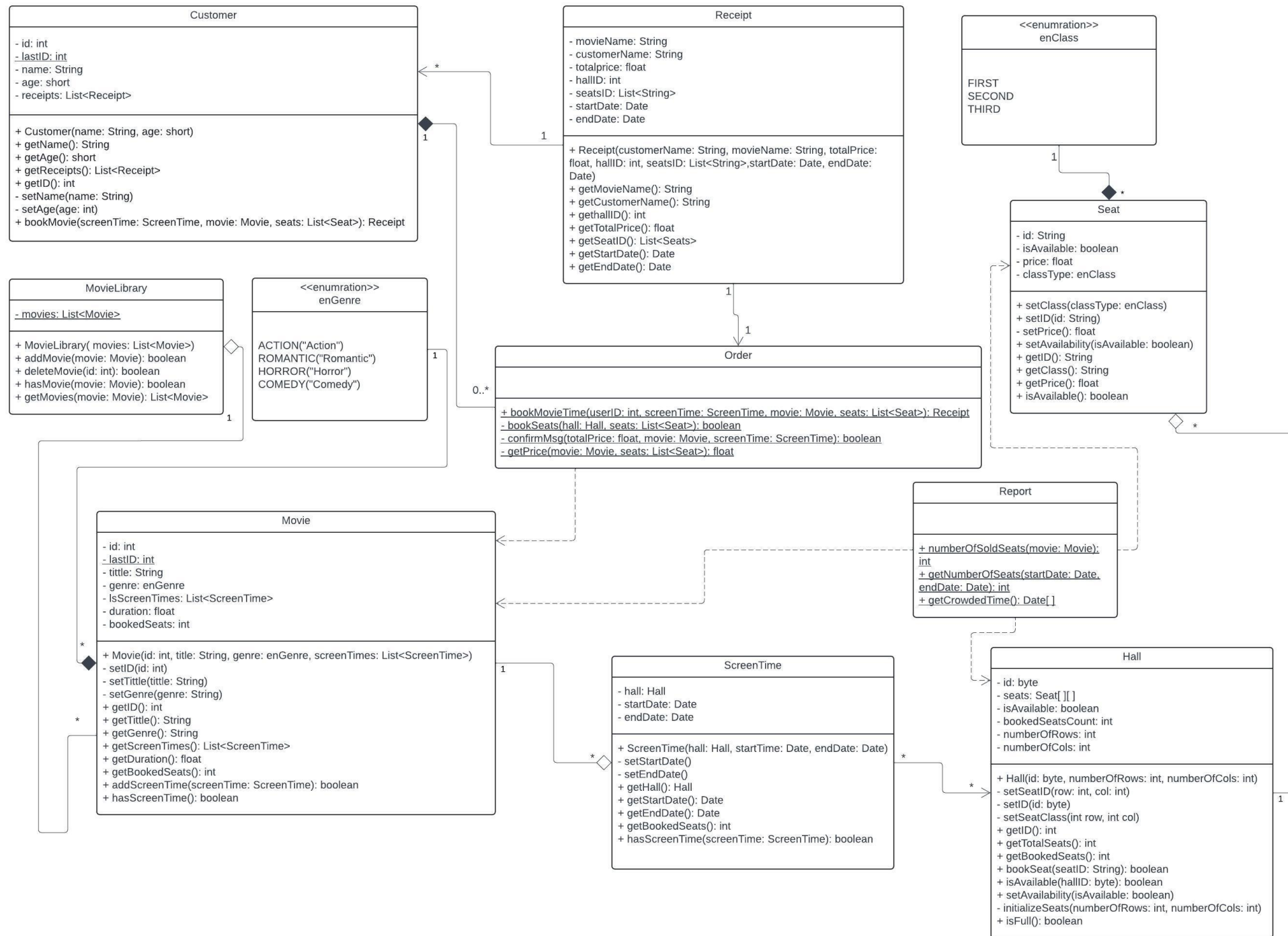
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Milestone #1 (DONE)

UML class diagrams and a short description for the classes to be used

UML CLASS DIAGRAM

- CLASS DIAGRAM (Entities)
- CLASS RELATIONS (Arrows)



Short Description for every Class

Customer Class

Manages customer details like name, age, and receipts for booked movies.

Methods include booking movies and setting customer details.

Short Description for every Class

MovieLibrary Class

Contains a collection of movies.

Methods for adding, deleting, and checking if a movie exists.

Short Description for every Class

Movie Class

Represents individual movie details such as title, genre, duration, and screenTimes.

Methods for managing and retrieving movie information.

Short Description for every Class

ScreenTime Class

Holds information about movie screening times, including hall, startDate, and endDate.

Methods to manage screening time details.

Short Description for every Class

Seat Class

Represents a seat in a hall with attributes like price, availability (isAvailable), and class type (classType).

Methods for setting seat details and checking availability.

Short Description for every Class

Hall Class

Manages hall information, including seating arrangement (seats), and booked seat counts.

Methods for seat management, availability, and hall capacity.

Short Description for every Class

Receipt Class

Contains information about a movie booking, such as movieName, totalPrice, and seats.

Methods to retrieve receipt details like price and seatList.

Short Description for every Class

Order Class

Manages customer orders for movie bookings.

Methods to book movie times, confirm orders, and calculate prices.

Short Description for every Class

Report Class

Generates reports for the number of sold seats, seats available, and the most crowded times.

Short Description for every Class

enGenre (Enumeration)

Lists the movie genres like Action, Romantic, Horror, and Comedy.

enClass (Enumeration)

Specifies seat class types such as FIRST, SECOND, and THIRD.

THANK YOU



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