
Case Study 5

Course(s): Java DSA

Day: 12

Problem Statement

Implement Movie Ticket Booking Solution using Multi Threading in Java.

Consider 2 Users, trying to book the Ticket with the same seat number. You need to implement synchronization so as to solve this problem

You must implement the below functionalities.

1. MovieTicket Class
2. User Class
3. BookMeTicketApp Class
4. Suitable methods to the above classes to achieve functionality

Steps

1. Create a class MovieTicket, with suitable attributes (eg: name, time, price, seatNumber, rowNumber, userEmail etc.)
2. Create a class User, with suitable attributes (eg: name, phone, email, etc..)
3. Create a class BookMeTicketApp, and Implement the following methods:
 - a. MovieTicket **selectSeat()** which can take input from the User to book the ticket
 - b. **bookTicket(MovieTicket ticket, User user)**
 - c. **payForTicket(int amount)**
 - d. You can code any other utility methods or helper classes required as per your need.