

Cricket Match Ticket Booking Application

Overview

Develop an application for booking tickets for upcoming cricket matches:

- India vs. Australia Match

Application Features

Audience (User)

1. Book tickets for a match .
2. View booked tickets by Booking Number.

Admin

1. View booked tickets by Booking Number.
2. Get the Non-occupied seats count.

Ticket Details

- Booking Number (unique for each booking) (Booking ID should any random three digit unique number)
- Ticket Number (Ticket Number will be BookingNumber+""+seatNumber+""+N , where N >1)
- Seat Number (any continuous number between 1-50)
- AudienceInformation:
 - Name, - Age, - Gender and - Phone Number (of the person booking the ticket)

Ticket Booking Rules

- Stadium capacity: 50 seats
- One person can book up to 5 tickets
- All tickets in a single booking get the same Booking Number

BookingExceptions

- ExceedsMaxTicketsException:

Raised when user tries to book more than 5 tickets, exception error message should include the user requested number of tickets

- PhoneNumberAlreadyRegisteredException:

Raised when booking phone number is already registered.

Exception message should include the Phone number and Booking Id by which it already available

Exception Message : Alert!!!, phone number {phone_number} is already booked (Booking ID {booking_id}). Try another number.

Below is the class Structure

© Audiance.java ×

```
1 package com.edu.cw;
2
3 public class Audiance 1 usage
4 {
5     private String name; no usages
6     private String gender; no usages
7     private int age; no usages
8     private long phoneNumber; no usages
9 }
10
```

© Ticket.java ×

```
1 package com.edu.cw;
2
3 public class Ticket { no usages
4     private int bookingId; no usages
5     private int ticketId; no usages
6     private int seatNumber; no usages
7     private Audiance audiance; no usages
8 }
9
```

```
1 package com.edu.cw;
2
3 public class BookingService { no usages
4
5     private Ticket allTickets[] = new Ticket[50]; no usages
6     // Options Array
7     // Other Options List<Ticket> or Set<Ticket>
8     // Instead of arrays , you can use Collection classes
9
10    public boolean bookTicket(Audiance audiance[],int bookingId) { no usages
11        return false;
12    }
13
14    public Ticket[] getBookedTicketsInfo(int bookingId) { no usages
15        return null;
16    }
17
18 }
```

Running Main Menu

---- MENU ----

1. Audiance ticket Booking
2. View ticket Booking Status
3. Admin view Seat Reports