<u>Middleware Assignment</u>

Creating a simple application using CORBA

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We developed a simple flight booking application using corba object oriented middleware. There are 3 main functionalities.

1. Search flights.

User can search flights available by providing necessary details.

2. Book seats.

User can book seats on a specific flight by providing a specific flight id, their name and booking date.

3. Cancel bookings.
User can cancel the bookings by providing booking id, name and the booking date.

The idl file is shown below.

```
module FlightBookingApp
{
    interface FlightBooking{
        string search(in string from,in string to);
        string book(in long id,in string name,in string date);
        string cancleBooking(in long id,in string name,in string date);
        oneway void shutdown();
    };
};
```

Demonstration

Running orbd in terminal,

```
❷ □ dinidu@dinidu-lap:~

dinidu@dinidu-lap:~$ orbd -ORBInitialPort 1050&

[1] 6810

dinidu@dinidu-lap:~$ ■
```

Server running

```
Problems @ Javadoc № Declaration ☐ Console ☎

startPage [Java Application] /usr/local/java/jdk1.8.0_101/bin/java (Sep 12, 2016, 2:54:48 PM)

Welcome to Flightbooker ...
```

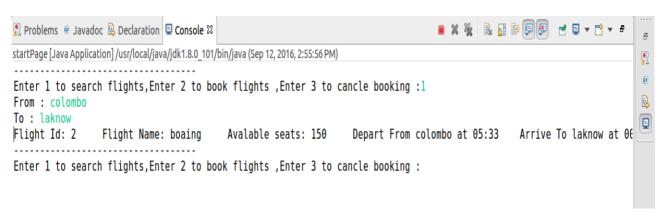
Client running

```
Problems @ Javadoc Declaration Declaration Console ⊠

startPage [Java Application] / usr/local/java/jdk1.8.0_101/bin/java (Sep 12, 2016, 2:55:56 PM)

-----
Enter 1 to search flights, Enter 2 to book flights , Enter 3 to cancle booking :
```

Search flights.



Book seats.

After the booking was made. The number of seats have decremented.

Cancel bookings

```
startPage [Java Application] /usr/local/java/jdk1.8.0_101/bin/java (Sep 12, 2016, 3:07:26 PM)
-----
Enter 1 to search flights, Enter 2 to book flights , Enter 3 to cancle booking :2
Enter full name : dinindu
Enter date(year/month/date) : 2017/12/12
Enter Flight id : 2
Succesfully booked Flight number 2 on 2017/12/12
 your booking id is 0
-----
Enter 1 to search flights, Enter 2 to book flights , Enter 3 to cancle booking :3
Enter booking id : 0
Enter Your name : dinindu
Enter booked date(year/month/date) : 2017/12/12
Your booking is cancled...
Enter 1 to search flights, Enter 2 to book flights , Enter 3 to cancle booking :
After cancellation available number of seats have incremented.
Enter 1 to search flights, Enter 2 to book flights , Enter 3 to cancle booking :1
From : colombo
To: laknow
Flight Id: 2
          Flight Name: boaing
                          Avalable seats: 150
                                            Depart From colombo at 05:33 Arrive To laknow at 00:00
 Enter 1 to search flights, Enter 2 to book flights , Enter 3 to cancle booking :
Try to search unavailable flights.
Enter 1 to search flights, Enter 2 to book flights , Enter 3 to cancle booking :1
From : colombo
To: australia
Sorry!! No Flights Found
-----
Try to book unavailable flights.
```

```
Enter 1 to search flights, Enter 2 to book flights , Enter 3 to cancle booking :2
Enter full name : dini
Enter date(year/month/date) : 2017/10/10
Enter Flight id : 56
Sorry you can not book this flight!!!

Enter 1 to search flights, Enter 2 to book flights , Enter 3 to cancle booking :
```

Try cancel bookings with wrong data.

```
startPage [Java Application] /usr/local/java/jdk1.8.0_101/bin/java (Sep 12, 2016, 3:07:26 PM)
-----
Enter 1 to search flights, Enter 2 to book flights , Enter 3 to cancle booking :2
Enter full name : dinindu
Enter date(year/month/date) : 2017/12/12
Enter Flight id : 2
Succesfully booked Flight number 2 on 2017/12/12
your booking id is 0
-----
Enter 1 to search flights, Enter 2 to book flights , Enter 3 to cancle booking :3
Enter booking id : 0
Enter Your name : dinindu
Enter booked date(year/month/date) : 2017/12/12
Your booking is cancled...
-----
Enter 1 to search flights, Enter 2 to book flights , Enter 3 to cancle booking :3
Enter booking id: 2
Enter Your name : dinindu
Enter booked date(year/month/date) : 2017/12/12
Sorry you dont have a booking on 2017/12/12 with id 2
-----
-----
Enter 1 to search flights, Enter 2 to book flights , Enter 3 to cancle booking :
```