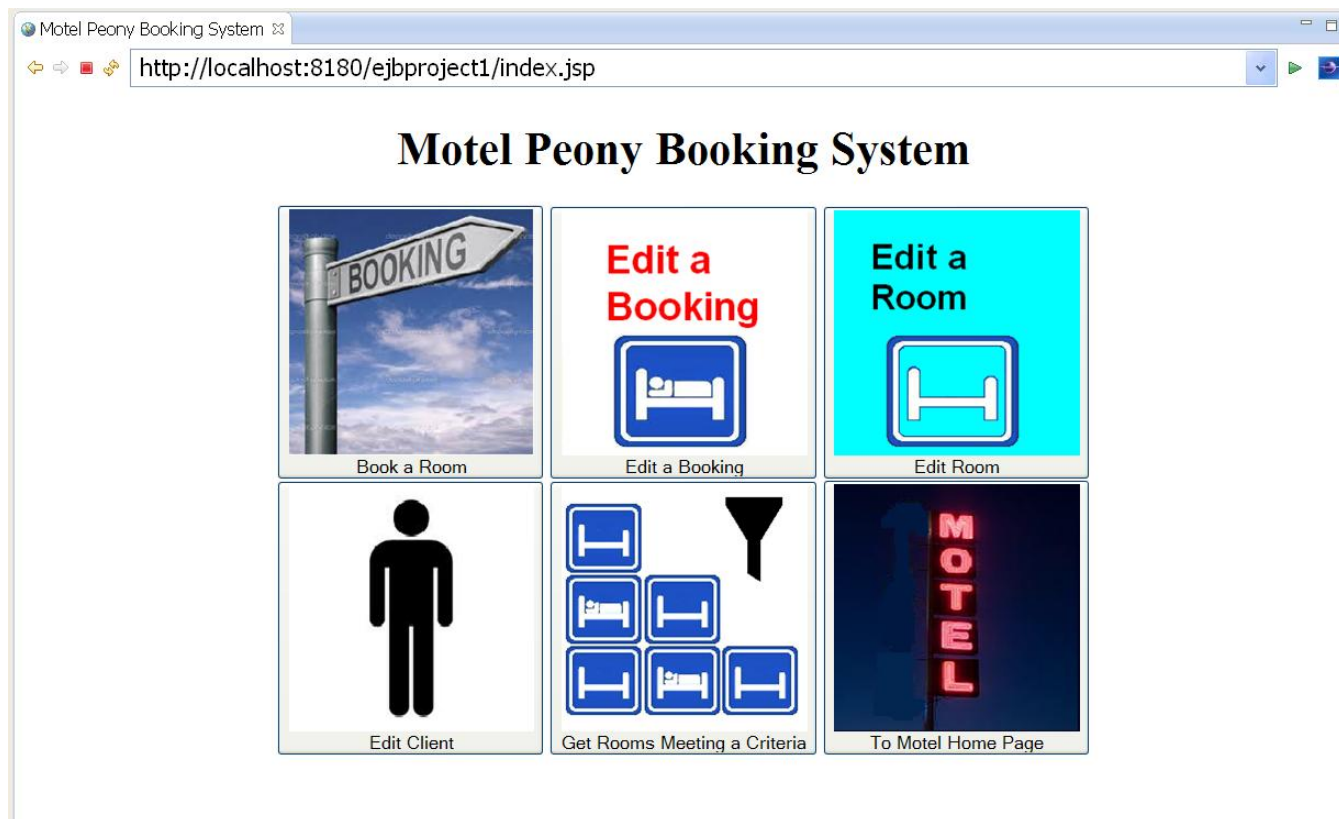
































EJB605 course project --- Mingtao Li -- Fall 2012
Course Project: Booking a room in a motel (Due: Nov 30,2012)

1. Main page:



2. Add a booking: (I used jQuery to show the drop down calendar. I used javascript to check the start date and end date:
- 1) If start date is empty, ask user to enter a start date;
 - 2) If start date is earlier than today, ask user to enter a start date NOT earlier than today;
 - 3) If end date is empty, ask user to enter an end date;
 - 4) If end date is earlier than today, ask user to enter an end date NOT earlier than today;
 - 5) If end date is earlier than start date, ask user to enter an end date NOT earlier than start date.

Book a Room                              

Available rooms search result: <http://localhost:8180/ejbproject1/BookingControllerServlet>

BookRoomSearchResult.jsp

Available rooms search result:

Rooms available from 06/14/2013 to 06/30/2013

Now it is Sun Nov 25 11:51:06 EST 2012

Room Number	Room Name	Room Price	Room Description
101	test	11.99	This is the nicest room: It has ...
202	room 202	150.0	big room,nice bed

This booking number will be: #6

Enter room number:

Message from webpage

⚠ Please enter a room number in the table

After user entered correct room number in the list and click submit button ,user will enter a page to register the booking. Notice that booking number and client ID are already automatically set by the system.

Form Validation <http://localhost:8180/ejbproject1/BookingControllerServlet>

AddBooking.jsp

Booking Definition:

* Required Fields

Booking Number: 6
Booking Date 20121125
Booking Start Date: 20130614
Booking End Date: 20130630
Booking Client ID: 6
Booking Room Number: 101
Booking Notes <input type="text"/>

[Back to Management System](#)

"Booking Notes" area is not a required field. So user can just click "submit" button to go to the next page to add a new client.

Form Validation

http://localhost:8180/ejbproject1/processBooking.jsp

AddClient.jsp

Client Definition:

* Required Fields

Client ID*
6

Client First Name*

Client Last Name*

Client Email*

Client Phone Number*

Client Address*

[Back to Management System](#)

Notic here the client ID is automatically set to 6. "6" is (the current max client id) + 1.

If the user forgot to enter some value, there will be error messages:

Form Validation

http://localhost:8180/ejbproject1/processClient.jsp

validateClient.jsp

Client Definition:

* Required Fields

Client ID
7

Client First Name*

Please enter a first name

Client Last Name*

Please enter a last name

Client Email*

Please enter an email address

Client Phone Number*

Please enter a phone number

Client Address*

Please enter an address

If a client id was deleted from the database, all other clients' id will not be changed. You will see it in the next 4 screen shots.

Form Validation

http://localhost:8180/ejbproject1/processBooking.jsp

AddClient.jsp

Client Definition:
* Required Fields

Client ID*	6
Client First Name*	Mingtao
Client Last Name*	Li
Client Email*	mli@gmail.com
Client Phone Number*	4165434523
Client Address*	102 big road,ontario,canada
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

[Back to Management System](#)

You can see the transaction was successfully done. In this transaction, a booking was added to the booking table. And a client was added to the client table.

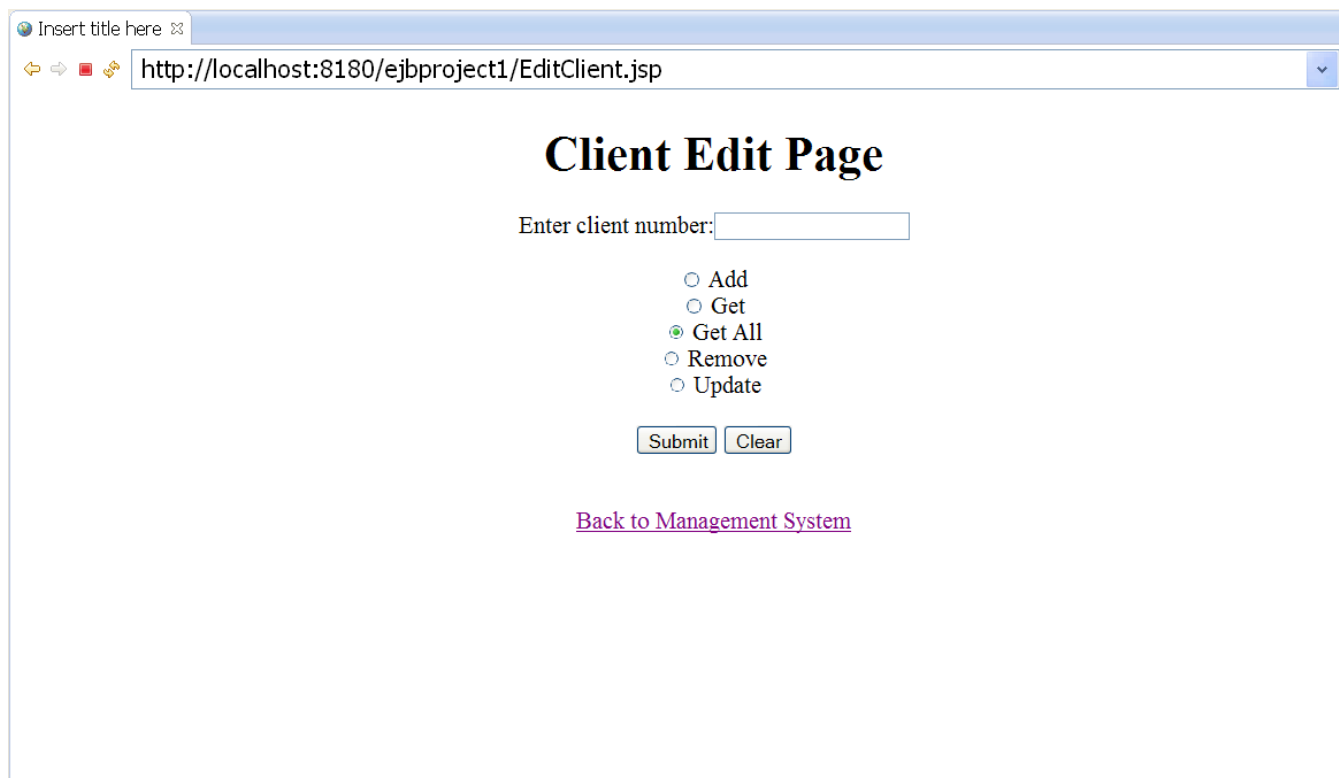
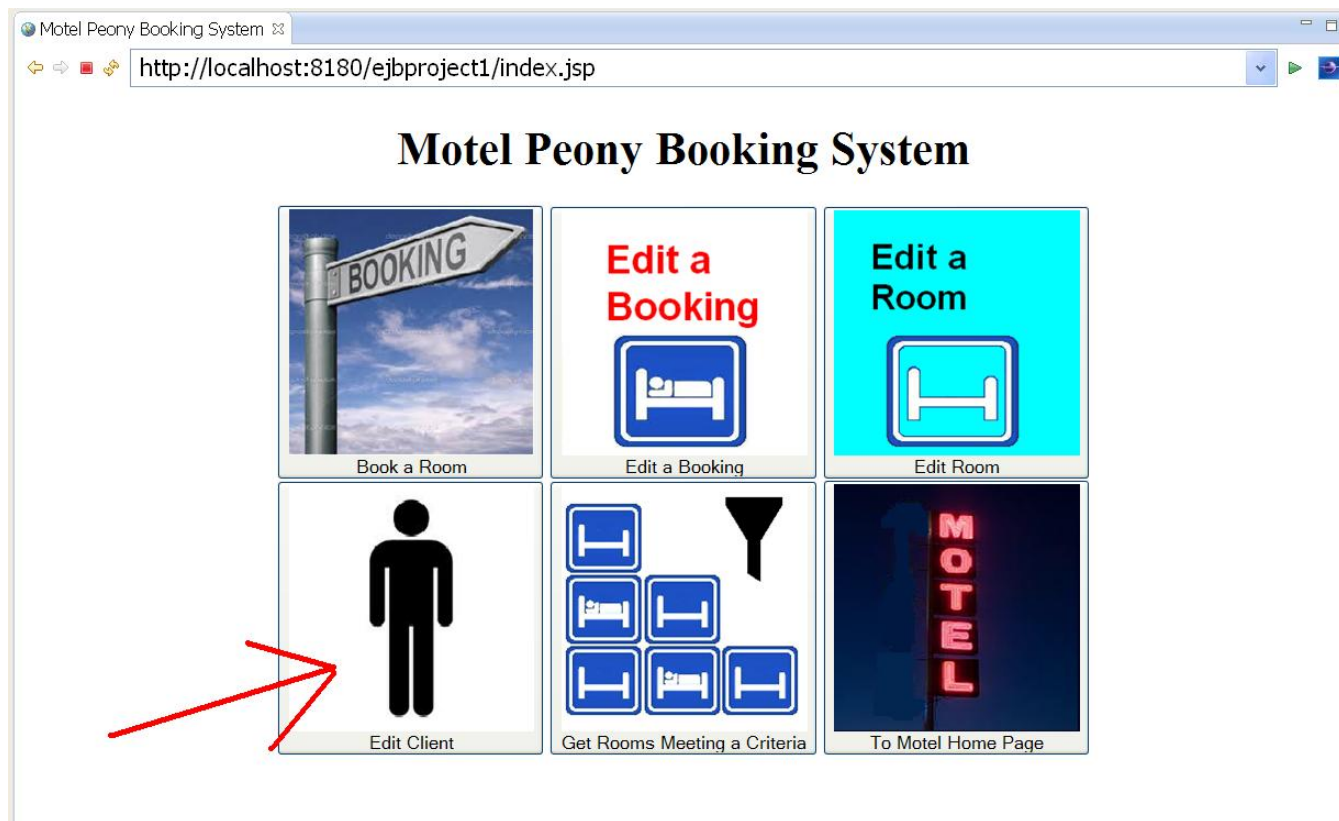
Insert title here

http://localhost:8180/ejbproject1/processClient.jsp

Your request has been done successfully!

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Now let's check the client list. Go back to the main menu, click the big button with a person icon, next page choose "Get All", then you will see the client list:



Display clients

http://localhost:8180/ejbproject1/ClientControllerServlet

Display Client List

Client Number	Client First Name	Client Last Name	Client Email	Client Phone Number	Client Address
1	jack	layton	jack.layton@yahoo.com	4167654567	123 Yonge Street,Toronto,Canada,M2J3T4
3	da	vince	davince@gmail.com	4165465364	876 big road,toronto,canada
4	mary	rose	rose@gmail.com	6576545678	456 big road,toronto,canada
5	tom	jack	tjack@gmail.com	4165463546	102 big road,canada
6	Mingtao	Li	mli@gmail.com	4165434523	102 big road,ontario,canada

[Back to Management System](#)

From the last screen shot, you can see all the client list. Notice that client ID #2 was deleted by me on purpose for this demonstration. After client #2 was deleted, when I tried to add a new client "Mingtao Li", the client number (client ID) for this new client will be 6, not 5! This is done by a java code I wrote in java file: RoomControllerServlet. Here is the code:

```

Display clients RoomControllerServlet.java
374
375     }
376
377     public static int currentMaxBookingNumber() {
378         int max = 0;
379         RoomServiceLocator sl = new RoomServiceLocator();
380         List<Booking> bookingList = sl.listAllBookings();
381         for (Booking b : bookingList) {
382             int temp = b.getBookingID();
383             if (temp > max) {
384                 max = temp;
385             }
386         }
387         return max;
388     }
389
390
391
392     public static int currentMaxClientNumber() {
393         int max = 0;
394         RoomServiceLocator sl = new RoomServiceLocator();
395         List<Client> clientList = sl.listAllClients();
396         for (Client b : clientList) {
397             int temp = b.getClientID();
398             if (temp > max) {
399                 max = temp;
400             }
401         }
402         return max;
403     }

```

At the same time, a new booking record (booking number 6) was added to the booking table in MySQL database:

Display bookings RoomServiceLocator.java
http://localhost:8180/ejbproject1/BookingControllerServlet

Display Booking List

Booking Number	Booking Date	Booking Start Date	Booking End Date	Booking Client ID	Booking Room Number	Booking Notes	Booking Is Active?
1	20121101	20121201	20121221	1	101	This customer is from Europe	TRUE
2	20121125	20130307	20130328	3	202		TRUE
3	20121125	20130411	20130427	5	202		TRUE
4	20121125	20130508	20130531	6	101		TRUE
5	20121125	20130529	20130531	5	202		TRUE
6	20121125	20130614	20130630	6	101		TRUE

[Back to Management System](#)

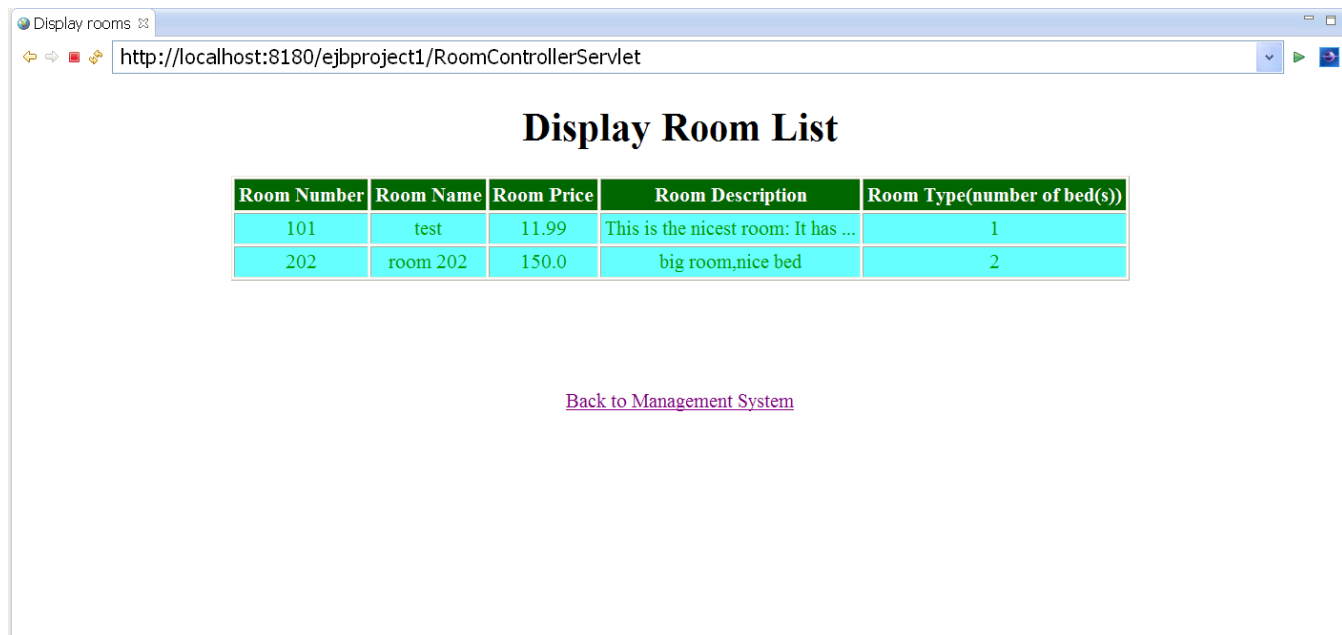
Notice the “Booking is active” column in the booking list. If a client cancelled the booking, it’s better to keep the record and set the “Booking is active” column to “FALSE”. Then when we search all the active bookings, these cancelled bookings will not be counted in. I did this by using method “public List<Booking> listActiveBookings()”:

```

64         transaction.commit();
65         return rooms;
66     } catch (HibernateException e) {
67         transaction.rollback();
68         e.printStackTrace();
69         return null;
70     } finally {
71         session.close();
72     }
73 }
74
75 //only list active bookings
76 public List<Booking> listActiveBookings() {
77     Session session = HibernateUtil.getSessionFactory().openSession();
78     Transaction transaction = null;
79     try {
80         transaction = session.beginTransaction();
81         List<Booking> bookings =
82             (List<Booking>) session.createQuery("from Booking b where b.isActive = 'TRUE'").list();
83         transaction.commit();
84         return bookings;
85     } catch (HibernateException e) {
86         transaction.rollback();
87         e.printStackTrace();
88         return null;
89     } finally {
90         session.close();
91     }
92 }
93

```

Finally check out our room list:



Display rooms

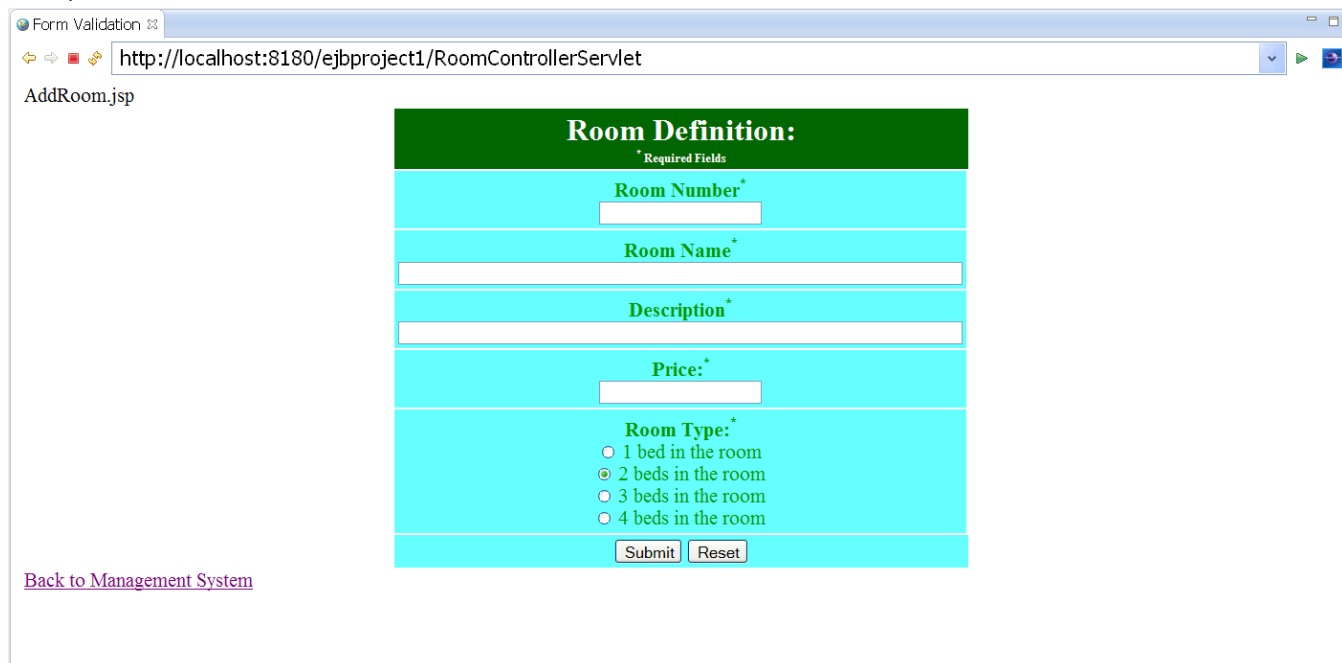
http://localhost:8180/ejbproject1/RoomControllerServlet

Display Room List

Room Number	Room Name	Room Price	Room Description	Room Type(number of bed(s))
101	test	11.99	This is the nicest room: It has ...	1
202	room 202	150.0	big room,nice bed	2

[Back to Management System](#)

Here is the add room screen. You can choose 4 room types: 1 bed in the room, 2 beds in the room, 3 beds in the room, and 4 beds in the room.



Form Validation

http://localhost:8180/ejbproject1/RoomControllerServlet

AddRoom.jsp

Room Definition:

* Required Fields

Room Number*

Room Name*

Description*

Price:*

Room Type:*

☐ 1 bed in the room
☒ 2 beds in the room
☐ 3 beds in the room
☐ 4 beds in the room

Submit Reset

[Back to Management System](#)

If I forgot to enter room number, price, room name or description, there will be error messages:

Form Validation

http://localhost:8180/ejbproject1/process.jsp

validate.jsp

Room Definition:

* Required Fields

Room Number*

606

Room Name*

Please enter a room name

Description*

Please enter a description

Price:*

Please enter a decimal number (xx.yy)

Room Type:*

- ☐ 1 bed in the room
- ☐ 2 beds in the room
- ☐ 3 beds in the room
- ☐ 4 beds in the room

Form Validation

http://localhost:8180/ejbproject1/process.jsp

validate.jsp

Room Definition:

* Required Fields

Room Number*

606

Room Name*

room 606

Please enter a room name

Description*

big room

Please enter a description

Price:*

135

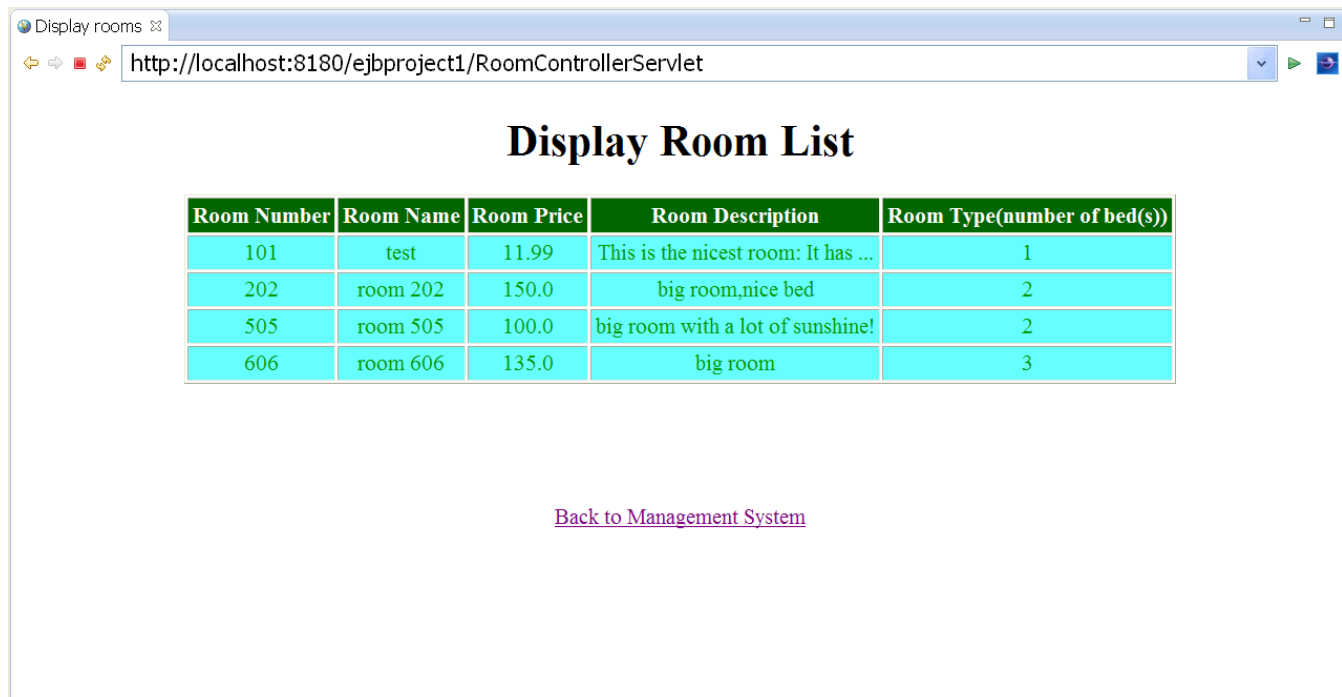
Please enter a decimal number (xx.yy)

Room Type:*

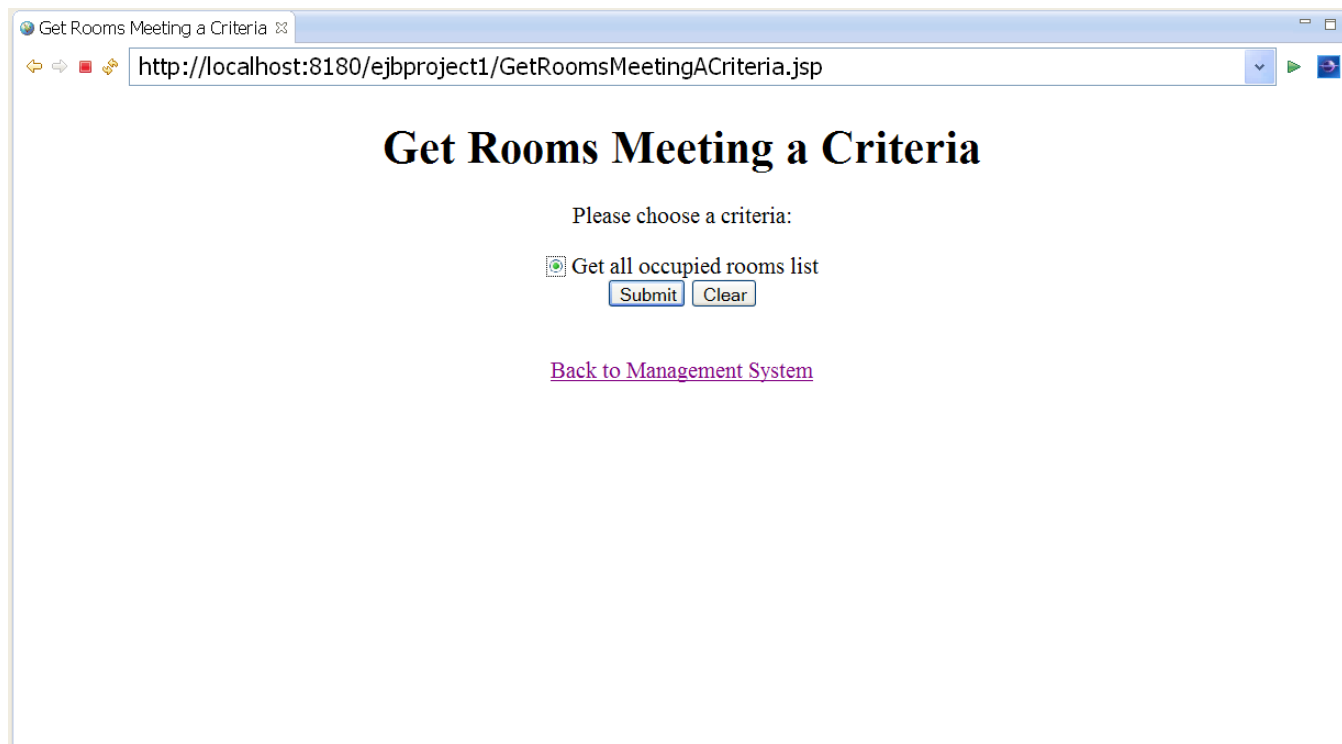
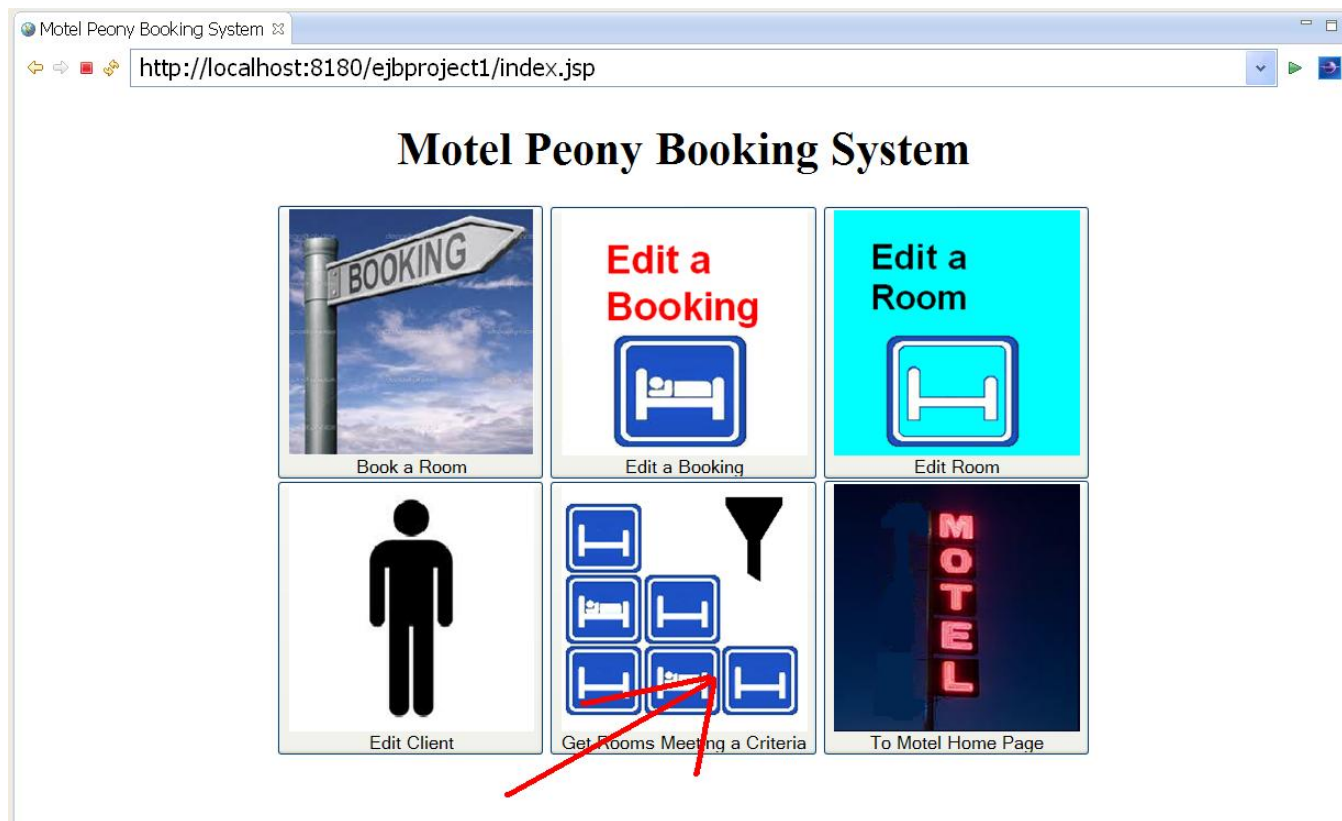
- ☐ 1 bed in the room
- ☐ 2 beds in the room
- ☒ 3 beds in the room
- ☐ 4 beds in the room



Check the room list:



You can also use a filter to get the filtered data.







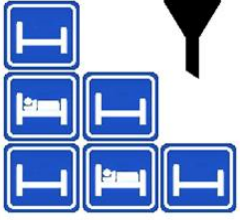

Then you will see the room list.

Finally, you can browse the motel facilities, activities, services, internet, parking and motel policies:

Motel Peony Booking System

http://localhost:8180/ejbproject1/index.jsp

Motel Peony Booking System


 Book a Room	Edit a Booking  Edit a Booking	Edit a Room  Edit Room
 Edit Client	 Get Rooms Meeting a Criteria	 To Motel Home Page

Insert title here


http://localhost:8180/ejbproject1/motelhomepage.jsp

Welcome to Motel Peony!


1 bed in the room:




2 beds in the room:



3 beds in the room:




4 beds in the room:




Insert title here

http://localhost:8180/ejbproject1/motelhomepage.jsp


Parking:




Swimming pool:



Free Breakfast:



Free wifi:



[Motel policies:](#)

Click "Motel policies" and you will see the policies:

Insert title here

http://localhost:8180/ejbproject1/policies.jsp

Motel Peony Policy

1. Don't speak loud after 11pm. Please be considerate to other guests.
2. Don't download movies and software from the internet.
3. Don't destroy devices in the room. Otherwise you need to pay for it.

[Back to Motel Home Page](#)