User manual

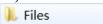
1.Level

I have accomplished the credit level.

This program is a 2-tier system which achieve the multiple clients talking to a single server. It is implemented satisfactorily, provides the required functionality, is robust, exhibits the application of sound design principles and code conventions.

2.Guide

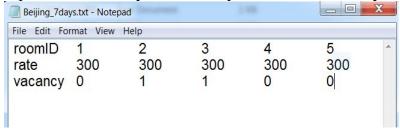
(1.) I use the text files to store my background data in a "Files" folder.



In it, there are eight files as follow.



To ensure that each text file has its own function. For example: the Beijing_7days represents the information of the hotel named "7days" in Beijing. The text "Beijing_JJStar", "Shanghai_7days", "Shanghai_JJstar" are similar to the function of "Beijing_7days". The data 0 or 1 behind the data vacancy represents the room which has been booked or not. "0" represents vacancy and "1" represents not vacancy.



(2.) Export the java files with the runnable JAR file and then it can be used with the command in the dos system.

Use the command: *java -jar ServerImpl.jar localhost* Then the server is running.

C:\Users\lenovo\Desktop>java -jar ServerImpl.jar localhost Server is running. (3.) Like the former operation, use the command: *java -jar ServerImpl.jar localhost*

Then the client is running and four main functions shown on the window.

- "BOOK" for booking a room, "ORDER" for searching the orders,
- "COMPARERATE" for comparing the rates from different hotels and "QUIT" for quit the procedure.

```
C:\Users\lenovo\Desktop>java -jar ClientUI.jar localhost
Client is running.
Entre Request: 1.BOOK 2. ORDERS 3.COMPARERATE 4.QUIT
```

(4.) Choose the function two and we can see there is no orders in it before no one book the room.

We can compare the rate before booking room because we can have a overview of rates of different hotels.

```
Entre Request: 1.BOOK 2. ORDERS 3.COMPARERATE 4.QUIT
2
The order information are as followed: The record information details:
Name inDay outDay creCard Phone:

Entre Request: 1.BOOK 2. ORDERS 3.COMPARERATE 4.QUIT
3
Beijing_7days
300

Beijing_JingjiangStar
400

Shanghai_7days
150

Shanghai_JingjiangStar
200
```

(5.) We can book the room now. Choose the function one.

First shown is the CityList, choose by yourself.

Second shown is the HotelList, choose by yourself.

Then the system returns your result and reveal the hotel details which you selected.

Then we meet the data I said above. If you choose the id that not 1 or 2 or 3 or 4 or 5, the system will recognized the error and enables you to input again. Please do not choose the room which the value of "vacancy" is "1".

If you book the room which id is 5, then the system will set this vacancy to "1" when next client coming into this hotel will meet the changed data.

Next, you will input your personal information as the format seen in the windows -- with the delimiter "space" and the "Enter" in the last. Then the information has been stored.

(6.) Now we can see the order in the function 2.

```
Entre Reguest: 1.BOOK 2. ORDERS 3.COMPARERATE 4.QUIT
CityList :1.Beijing 2.Shanghai
Please choose CITY: 1
HotelList : 1.7days 2.JingJiangStar
Please choose HOTEL : 1
You have choose Beijing 7days Hotel.
There is the Hotel Details :
roomID 1
rate 300
                                        5
               2
                        3
               300
                                        300
                        300
                                300
              1
vacancy 0
                               O
Select the room id: form: 1 2 3 4 5
Not choose the room id that vacancy is 1.
Input the information: Name inDay outDay CreCard Phone
Follow the form: name xx-xx xx-xx [0-9]{6} [0-9]{11}: chen 05-01 05-02 123456 15
056234567
Information has been stored.
Entre Request: 1.BOOK 2. ORDERS 3.COMPARERATE 4.QUIT
The order information are as followed: The record information details :
Name inDay outDay creCard Phone:
chen 05-01 05-02 123456 15056234567
```

(7.) Go through this command in the client window, we can also see the server window. It can recognize all the client's operations.

```
Entre Request: ORDERS

Entre Request: COMPARERATE

Entre Request: CITY

Entre Request: Beijing

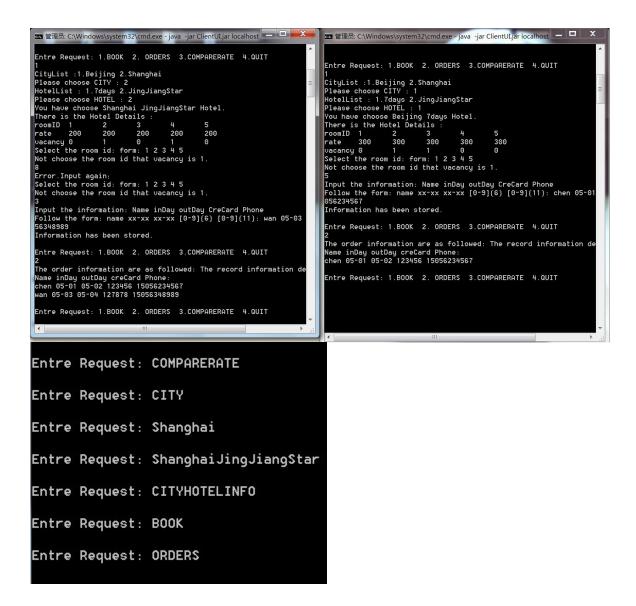
Entre Request: Beijing7days

Entre Request: CITYHOTELINFO

Entre Request: BOOK

Entre Request: ORDERS
```

(8.) Because of the multiple thread, the project can be run with lots of clients in the same time.



(9) Quit the program you can use the function 4 and the clients windows are shown as follow.

```
Entre Request: 1.800K 2. ORDERS 3.COMPARERATE 4.QUIT

C:\Users\lenovo\Desktop>

UII

C:\Users\lenovo\Desktop>

UII

C:\Users\lenovo\Desktop>

UII

C:\Users\lenovo\Desktop>

UII

C:\Users\lenovo\Desktop>
```

(10.) Some wrong information will displayed on the server window but it has no effects on the following operation.

```
Entre Request: QUIT
java.net.SocketException: Software caused connection abort: recv failed
        at java.net.SocketInputStream.socketReadO(Native Method)
        at java.net.SocketInputStream.read(Unknown Source)
       at java.net.SocketInputStream.read(Unknown Source)
       at sun.nio.cs.StreamDecoder.readBytes(Unknown Source)
        at sun.nio.cs.StreamDecoder.implRead(Unknown Source)
        at sun.nio.cs.StreamDecoder.read(Unknown Source)
        at java.io.InputStreamReader.read(Unknown Source)
       at java.io.BufferedReader.fill(Unknown Source)
        at java.io.BufferedReader.readLine(Unknown Source)
        at java.io.BufferedReader.readLine(Unknown Source)
        at Server.BrokerHandler.run(ServerClientHOPP.java:64)
Entre Request: QUIT
java.net.SocketException: Software caused connection abort: recv failed
        at java.net.SocketInputStream.socketReadO(Native Method)
        at java.net.SocketInputStream.read(Unknown Source)
       at java.net.SocketInputStream.read(Unknown Source)
        at sun.nio.cs.StreamDecoder.readBytes(Unknown Source)
        at sun.nio.cs.StreamDecoder.implRead(Unknown Source)
        at sun.nio.cs.StreamDecoder.read(Unknown Source)
       at java.io.InputStreamReader.read(Unknown Source)
       at java.io.BufferedReader.fill(Unknown Source)
       at java.io.BufferedReader.readLine(Unknown Source)
        at java.io.BufferedReader.readLine(Unknown Source)
       at Server.BrokerHandler.run(ServerClientHOPP.java:64)
Entre Request: ORDERS
Entre Request: COMPARERATE
```