

README

Language used: Python and SQL

Libraries: pyodbc

To run this code you can use Visual studio code or Visual studio 17. The code was tested and debugged on ***visual studio code and Jupyter at CSIL SFU.***

HOME:

The code works in sessions. Initially you will see this screen the is called **Home**.

```
What would you like to do in this session?
    1.Search a Listing
    2.Book a Listing (Only if you know the listing ID)
    3.Write a Review
    ENTER YOUR CHOICE (1 , 2 or 3)
```

Input:

You can input from choice 1,2 or 3 input should be strictly integer.Also there is no room for errors whenever inputted wrong datatype (i.e non integer it will give an error and the function will terminate)

When entered 1.

You will see this:

```
1
Input the filters of your search:

    1.Start Date And End Date

    2.Start And End Date + Minimum And Maximum Price.

    3.Start And End Date + number of bedrooms.

    4.Start And End Date + number of bedrooms + Minimum And Maximum Price.

    please enter your choice from 1 , 2 , 3 or 4
```

You can choose any one filter from different combinations of filters.

Input: You can input from choice 1,2,3 or 4, input should be strictly integer.
(non_integer inputs will terminate the program)

Below is an example of inputs asked and how to enter them:

The **date attributes** should be entered with hyphen symbol ("-"), i.e in the form "YYYY-MM-DD ". Program will give an error and might termite for wrong inputs (i.e inputs without hyphen symbol)

The **Number of bedrooms** are strictly of type integer. An invalid (i.e Non-Integer) input will terminate the program and you might have to restart it.

The **Minimum and Maximum** price attributes are of type integer. An invalid (i.e Non-Integer) input will terminate the program and you might have to restart it.

```
        please enter your choice from 1 , 2 , 3 or 4
3
Enter the start date in the format (YYYY-MM-DD) :
2016-01-01
Enter the end date in the format (YYYY-MM-DD) :
2016-01-05
Enter the number of bedrooms :
3

Search result are :

Search result is :

Listings ID      : 856550
Name             : tiny garden cabin on queen anne
Number of bedrooms : 3
Discription      : tiny cabin private quiet
Price            : 42.0

Listings ID      : 1112092
Name             : seattle backyard cottagequeen anne
Number of bedrooms : 3
Discription      : new backyard cottagehouse
Price            : 130.0
```

After your listings search :

```
Enter 1 to Search again, 2 to book a listing or 0 to go to home.
```

The program will ask if you want to Search again. An input = ('1') will take you back to Search Filters.

Also, you can go ahead and start booking the listing you want by inputting "2".

Booking a Listing:

The program will ask you for Bid ,Lid and your name. Again,An invalid input will terminate the program and you might have to restart it.

```
2
Enter the listing ID6134153
please enter your name.bbart
Enter the number of Guests.3
Thank you for your reservation.
Your Booking ID is : 22

Enter 2 to Book another listing or 0 to go to home.
```

After booking it will give you your booking id and ask if you want to book any other listing.

Here you can book another listing or by inputting ('0') go to home.

```
Enter 2 to Book another listing or 0 to go to home.
0
Enter 1 to continue or 0 to end you session.
1
Home:

What would you like to do in this session?
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    ENTER YOUR CHOICE (1 , 2 or 3)
```

If you will choose to go home it will ask you if you want to continue your session. By selecting 0 you will terminate the program and by selecting 1 it will take you back to home.

Writing a review

The program will ask your name and list all the booking details with that name.

```
What would you like to do in this session?
    1.Search a Listing
    2.Book a Listing (Only if you know the listing ID)
    3.Write a Review
    ENTER YOUR CHOICE (1 , 2 or 3)
3
please enter your name : harnoor

Booking - 1
Booking ID      : 10
Listing ID      : 10310373
Guest name      : harnoor
Stay from       : 2017-01-09
Stay to         : 2017-01-12

Booking - 2
Booking ID      : 12
Listing ID      : 6606
Guest name      : harnoor
Stay from       : 2019-01-01
Stay to         : 2019-02-01

Booking - 3
Booking ID      : 17
Listing ID      : 5549211
Guest name      : harnoor
Stay from       : 2016-08-11
Stay to         : 2016-08-14
```

Then it will ask for Bid and Lid for the booking you want to review. Again, An invalid input will terminate the program and you might have to restart it.

```
For which Booking would you like to submit a review ? (please enter the booking Id from above list) 17  
please enter the Listing id Id from above list:5549211  
Enter your review the view was really nice.  
Enter 3 to add another review or 0 to go to home
```

Later program will ask you if you want to add another review, you can input 3 to enter input and 0 to go home page (Again, an input 0 will ask you if you want to continue the session).

Trigger Termination:

If the Review Entered without having Bookings with that details then the trigger's error message will be displayed and the program will Terminate.

If the Review Entered before the stay_to date the trigger's error message will be displayed and the program will Terminate.