UT IT Manual Testing

Socket Connection between server and client

```
manisha@BGHLPG02VYHA:/mnt/c/hotel$ make
make: *** No rule to make target 'client.c', needed by 'client'.
                                                                                                                           manisha@BGHLPG02VYHA:/mnt/c/hotel$ make
make: *** No rule to make target 'client.c', needed by 'client'.
make: *** No rule to make target client.t , he Stop.
manisha@BGHLPG02VYHA:/mnt/c/hotel$ make
make: 'client' is up to date.
manisha@BGHLPG02VYHA:/mnt/c/hotel$ make server
gcc -o server src/server.c -lpthread
manisha@BGHLPG02VYHA:/mnt/c/hotel$ ./server
TCP Server Socket is created.
                                                                                                                          Stop.
manisha@BGHLPG02VYHA:/mnt/c/hotel$ make
                                                                                                                           make: 'client' is up to date.
manisha@BGHLPG02VYHA:/mnt/c/hc
                                                                                                                          manisha@BGHLPG02VYHA:/mnt/c/hotel$ make client
make: 'client' is up to date.
manisha@BGHLPG02VYHA:/mnt/c/hotel$ ./client
                                                                                                                           The Client Socket is created.
Listening...
cl_count = 0 fd = 4 clfd = 4
A new thread is created for client on fd: 4
Total clients connected : 1
                                                                                                                           Client is connected to Server.
HOTEL RESERVATION SYSTEM
                                                                                                                                                                        MENU
                                                                                                                                                                     1. Sign up
                                                                                                                                                                     2. Log in
                                                                                                                                                                     3. Exit from the System
                                                                                                                          Enter option : _
```

User Sign up with valid inputs

```
Enter Option : 1

Enter User Name : Sushmita
Enter User Passwd (Max 6 chars) : 1234

Jser Authentication Success

WELCOME TO HOTEL RESERVATION SYSTEM

1. VIEW ROOM TYPES
2. BOOK ROOM
3. CANCEL BOOKING
4. LOGOUT

Enter option :
```

User sign up with invalid inputs

```
1. Sign up

2. Log in

3. Exit from the System

Enter option : 1

Enter User Name : manishaaa

Enter User Passwd (Max 6 chars) : 1234567890

Invalid password, length must be between 4 and 6

Invalid input format

HOTEL RESERVATION SYSTEM

MENU

1. Sign up
```

User log in with valid credentials

```
MENU

1. Sign up

2. Log in

3. Exit from the System

Enter option : 2

Enter User Name : Sushmita
Enter User Passwd (Max 6 chars) : 1234

Jser Authentication Success

WELCOME TO HOTEL RESERVATION SYSTEM

1. VIEW ROOM TYPES

2. BOOK ROOM
```

User log in with invalid credentials

```
Enter Option : 2

Enter User Name : abc

Enter User Passwd (Max 6 chars) : 1234

Invalid username, length must be between 4 and 32

Invalid input format

HOTEL RESERVATION SYSTEM

MENU

1. Sign up
2. Log in
3. Exit from the System

Enter option : _
```

Display Hotel menu

```
Enter Option : 2

Enter User Name : Sushmita

Enter User Passwd (Max 6 chars) : 1234

Jser Authentication Success

WELCOME TO HOTEL RESERVATION SYSTEM

1. VIEW ROOM TYPES
2. BOOK ROOM
3. CANCEL BOOKING
4. LOGOUT

Enter option :
```

View Rooms Module

```
Enter option : 1
Sent bytes = 520
                      HOTEL SAPPHIRE
                                       FARE PER DAY
               ROOM TYPE
               SINGLE ROOM
                                       Rs.3000
               DOUBLE ROOM
                                       Rs.5000
               DELUXE ROOM
                                       Rs.10000
               SUITE ROOM
                                       Rs.15000
               WELCOME TO HOTEL RESERVATION SYSTEM
               1. VIEW ROOM TYPES
               2. BOOK ROOM
               3. CANCEL BOOKING
               4. LOGOUT
```

Book Room Module

User enters valid credentials to book room

```
1. VIEW ROOM TYPES

2. BOOK ROOM

3. CANCEL BOOKING

4. LOGOUT

Enter option : 2
Enter option : 2
Enter the username to continue booking : Sushmita
Enter your password : 1234

Enter the room type you wish to book(single/double/deluxe/suite)? : single
Enter your check in date in the format dd-mm: 12-01
Enter your check out date in the format dd-mm: 15-01
The Room is available
Enter name : _
```

Generates Bill

```
Name
                     : Sushmita
          Age
          Phone Number
                     : 7892731028
                     : 101
          Room Number
          Room Type
                     : single room
          Check In Date : 12-01
          Check Out Date : 15-01
          Total cost : Rs.9000
-----
          WELCOME TO HOTEL RESERVATION SYSTEM
          1. VIEW ROOM TYPES
          2. BOOK ROOM
```

User enters invalid check in check out date, month and format to book the room

User enters check out date greater than check in date

```
Enter option : 2
Enter the username to continue booking : Sushmita

Enter your password : 1234

Enter the room type you wish to book(single/double/deluxe/suite)? : deluxe
Enter your check in date in the format dd-mm: 15-01
Enter your check out date in the format dd-mm: 12-01
Check in date is greater than check out date

WELCOME TO HOTEL RESERVATION SYSTEM

1. VIEW ROOM TYPES

2. BOOK ROOM
```

User enters invalid phone number to book the room

```
3. CANCEL BOOKING
4. LOGOUT

Enter option: 2
Enter the username to continue booking: Sushmita

Enter your password: 1234

Enter the room type you wish to book(single/double/deluxe/suite)?: single
Enter your check in date in the format dd-mm: 12-01
Enter your check out date in the format dd-mm: 13-01
The Room is available
Enter name: Sushmita
Enter age: 22
Enter phone number: 90600222907

Invalid phone number: 90600222907
```

User enters invalid roon type to book the room

```
WELCOME TO HOTEL RESERVATION SYSTEM

1. VIEW ROOM TYPES
2. BOOK ROOM
3. CANCEL BOOKING
4. LOGOUT

Enter option: 2
Enter the username to continue booking: Sushmita
Enter your password: 1234
Enter the room type you wish to book(single/double/deluxe/suite)?: hut
Invalid room type
Enter the room type you wish to book(single/double/deluxe/suite)?:
```

Room Availability Statistics displayed in server

Cancel Room Module

User enters valid credentials to cancel room

User enters valid room number to cancel booking

User enters invalid room number to cancel booking