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PROJECT DESCRIPTION

AIM:

Our program helps to manage various day today activities of HOTEL SCHOOLVIEW like booking a room, generating bill, rescheduling, etc..

No cancellation of booking is allowed. There are 30 rooms of three types(10 of each type). Rooms are allotted during check - in date. Options for food and laundry services are also provided.

USER TYPES:

1.ADMIN: Admin is the head of all activities. Activities that can be done are listed below

- BOOK ROOM
- VACATE ROOM
- VIEW CUSTOMER DETAILS
- CHECK AVAILABILITY
- ADD/MODIFY/REMOVE ADMIN
- GENERATE BILL
- RESCHEDULE
- SEARCH CUSTOMER // Gives all details of customer of particular name
- GENERATE REPORT
- 2. CUSTOMER OR USER: He can perform the following activities
 - VIEW DETAILS
 - VIEW AVAILABLE PROMO CODE
 - CHECK AVAILABILITY

CLASS USED:

Customer Class:

It has only data members(check in date, month, year check out date, month, year, name, phone number, age, address, customer id, no of members, no of rooms).

Hotel Class:

```
It inherits customer in private mode
member functions are:

i. void addmin(string);

ii. void addtorecord(customer&); //add customer details to the file

iii. void adminlogin();

iv. void book(); //allows admin to book a room

v. double discount(int); //gives discount based on no of visits

vi. void genbill(int);

vii. int id(); //provides unique id for the customer

viii.void incemployees();

ix. void vacate();

x. void viewdetails(int); //for checking details of customer and to check availability
```

Room Class:

It has only data members.

Data members are customer, roomno, roomtype

FILES USED:

```
users.txt //contain details of all the customers

dates.txt //contains all dates in which rooms are booked
```

rooms.txt // details of all the rooms(name and other details of customer along with roomno).

id.txt

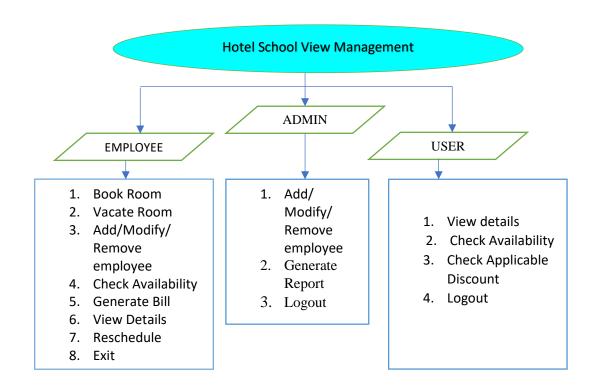
admin.txt //contain password of the admin(encrypted)

REPORT GENERATED:

generates all the details of customers who checked in and checked out along with the bill amount on a given date.

Project Planning

Flowchart of outsketch of programming modules



SHORTCOMINGS:

- 1. It cannot be used for managing multiple branches of our hotel, though it can be developed later.
- 2. This is not an online booking portal. Only employees of the hotel can book for the customers either through phone or in person.
- 3. Booking is not allowed after check in time of 12 noon for that day.
- 4. No cancellation is allowed, as money cannot be refunded.

SOURCE CODE:

```
1 ///HOTEL SCHOOLVIEW
 2 ///PROJECT DONE BY ABISHEK.S AND AHMED SHAMSUDEEN, class 12-
Α
 3
 4 #include<iostream>
 5 #include<stdio.h>
 6 #include<stdlib.h>
 7 #include<string.h>
 8 #include<fstream>
 9 #define _WIN32_WINNT 0x0500
                                    ///FOR FULL SCREEN VIEWING
 10 #include<windows.h>
 11 #include<dos.h>
 12 #include<conio.h>
 13 #include < bits/stdc++.h>
 14 #include<time.h>
 15 #include<graphics.h>
 16 #include<cstring>
 17
 18 using namespace std;
 19
 20 ///CLASS DEFINITIONS.....
 21 ///Class customer for storing details of each booking of a customer
 22 class customer {
 23 public:
 24
      char name[50]; ///Name of customer
                          ///Address of customer's residence
 25
      char address[250];
                        ///Age of customer as on the date of booking
 26
      int age;
 27
                       ///room type: 1. A.C Deluxe 2. A.C Luxury 3.
      int rtype;
NON-A.C----THERE ARE 10 ROOMS OF EACH TYPE
      string phno; ///customer's contact number
 28
 29
                         ///number of members
      int memb;
 30
      int laundry;
                        ///customer's choice for laundry service:1 for
YES,0 for NO
 31
      int food;
                        ///customer's choice for food service:1 for YES,0
for NO
 32
      int cndate;
                       ///check-in date dd format
                        ///check-in month mm format
 33
      int cnmonth;
 34
      int cnyear;
                        ///check in year yyyy format
 35
      int codate;
                        ///check-out date dd format
                         ///check-out month mm format
 36
      int comonth;
```

```
37
       int coyear;
                          ///check out year yyyy format
 38
       int nroom;
                          ///number of rooms booked
 39
       int id;
                        ///user identification number
 40
       ///Constructors:
 41
       customer(){
 42
         strcpy(name,"\0");
 43
         strcpy(address,"\0");
 44
         age=rtype=cndate=cnmonth=cnyear=codate=comonth=coyear=0;
 45
         phno="";
 46
         food=laundry=memb=0;
 47
         nroom=0;
 48
         id=0;
 49
       }
 50
       ///Functions.....
       friend istream& operator>>(istream& str,customer& a) { ///To
 51
input customer details from users.txt file
 52
         char ch:
 53
         str.get(ch);
 54
         if(ch!='\n'&&ch!='\0') str.unget();
 55
         str.getline((char*)&(a.name),50,'\n');
 56
         str.getline((char*)&(a.address),250,'\n');
 57
str>>a.phno>>a.age>>a.rtype>>a.cndate>>a.cnmonth>>a.cnyear>>a.codate>
>a.comonth>>a.coyear>>a.nroom>>a.id>>a.laundry>>a.food>>a.memb;
 58
         return str;
 59
 60
       }
 61
       friend ostream& operator<<(ostream& str,const customer &a) {</pre>
///To output customer details to users.txt file
 62
         str.write((char*)&(a.name),strlen(a.name));
 63
         str<<'\n';
 64
         str.write((char*)&(a.address),strlen(a.address));
 65
         str<<'\n';
 66
         str<<a.phno<<' '<<a.aqe<<' '<<a.rtype<<' '<<a.cndate<<'
<a.cnmonth<<' '<<a.cnyear<<' '<<a.codate<<' '<<a.comonth<<'
'<<a.coyear<<' '<<a.nroom<<' '<<a.id<<' '<<a.laundry<<' '<<a.food<<'
'<<' '<<a.memb<<'\n';
 67
         return str;
 68
      }
 69 };
 70
 71 ///Class room for storing status of each room
```

```
72 class room{
 73 public:
 74
       int rno;
                 ///ROOM NO
 75
       char status; ///b'-BOOKED 'a'-AVAILABLE(EMPTY)
       customer c; ///CUSTOMER IN THAT ROOM
 76
 77 };
 78
 79 map<int,room> r; ///This is to keep track of rooms and their status
 80
 81 ///Class hotel to take care of the hotel operations
 82 class hotel:protected room{
 83 protected:
 84
       vector<pair<string> > emps; //Hotel employee details:
user name, password
 85 public:
       ///Member Functions-prototypes
 86
 87
       void addemp(string);
 88
       void dsearch();
 89
       void nsearch();
       void addtorecord(customer&);
 90
 91
       void emplogin();
 92
       int available(int,int,int,int,int,int,int);
 93
       int nodays(int,int,int,int,int);
       void book();
 94
 95
       double discount(int);
 96
       string encDec(string& , char);
 97
       int full(int,int,int,int,int);
 98
       int genbill(int);
 99
       int genbill(int,int,int,int);
100
       void homescreen();
101
       int id();
102
       void allroom(int);
103
       void incemps();
       int IsInRange(int,int,int,int,int,int,int,int);
104
105
       void loginscreen();
106
       void remodate(int,int,int,int,int,int,int);
107
       void userlogin();
108
       void usermanage(int);
109
       void vacate(int);
110
       void viewdetails(int);
111
       int iscorrect(int,int,int);
112
       int iscorrect(int,int,int,int,int);
```

```
113
       int checkdate(int,int,int,int,int);
114
       void adminlogin();
115 };
116
117 ///MEMBER FUNCTION DEFINITIONS.....
118 ///Class room member functions
119 void hotel::allroom(int id=-1){
                                  ///To allot rooms properly each time
program is closed and opened again
       for(int i=100; i<=130; i++){
120
121
       customer d;
122
       r[i].status='a';
123
       r[i].rno=i;
124
       r[i].c=d;
125
       }
126
       fstream fin("rooms.txt",ios::in);
127
       customer c;
128
       time t timer;
129
       timer=time(NULL);
130
       struct tm* timers=localtime(&timer);
131
       int rn; char st;
132
       ofstream fout;
133
       int cnt=0;
134
       cout<<"\n\n\t\t\t\t\tVACATING TODAY(ROOM NUMBERS) : ";</pre>
135
136
       while(fin>>rn&&fin>>st&&fin>>c){
137
         if(id!=-1){
138
         if(c.codate==timers->tm mday&&c.comonth==timers-
>tm_mon+1&&c.coyear==timers->tm_year+1900&&c.id==id){
139
            r[rn].status='a';
140
            customer d;
141
            r[rn].c=d;
142
            r[rn].rno=rn;
143
         }
144
145
         else{
146
         if(c.codate==timers->tm_mday&&c.comonth==timers-
>tm mon+1&&c.coyear==timers->tm year+1900){
            cout<<rn<<'('<<c.rtype<<") ";
147
148
            cnt++;
149
            r[rn].status=st;
150
            r[rn].rno=rn;
151
            r[rn].c=c;
```

```
152
          }
153
          else{
154
             if(c.cndate==timers->tm_mday&&c.cnmonth==timers-
>tm_mon+1&&c.cnyear==timers->tm_year+1900){
               r[rn].status='a';
155
156
               r[rn].rno=rn;
157
               customer d;
158
               r[rn].c=d;
159
             }
160
             else{
161
             r[rn].status=st;
162
             r[rn].rno=rn;
163
             r[rn].c=c;
164
             }
          }
165
          }
166
167
        }
        if(cnt==0) cout<<"--NIL--";</pre>
168
169
        fin.close();
170
        fin.open("users.txt");
171
        fout.open("rooms.txt",ios::trunc);
172
        int i1=100, i2=101, i3=102, j;
173
        int ct=0;
174
       cout<<"\n\n\t\t\t\t\tROOM ALLOTMENTS TODAY ";</pre>
175
176
        while(fin>>c){
177
          if(c.cndate==timers->tm mday&&c.cnmonth==timers-
>tm_mon+1&&c.cnyear==timers-
>tm_year+1900&&iscorrect(c.cndate,c.cnmonth,c.cnyear)==0){
178
             int cnt=0;
179
             if(c.rtype==1) j=i1;
180
             else if(c.rtype==2) j=i2;
181
             else if(c.rtype==3) j=i3;
182
             while(cnt<c.nroom){</pre>
183
             while(r[j].status!='a') {j=j+3;}
184
             r[j].rno=j;
185
             r[j].status='b';
186
             r[j].c=c;
187
             cnt++;
188
             }
189
          }
190
        }
```

```
191
       for(int i=100; i<=130; i++){
         fout<<r[i].rno<<" "<<r[i].status<<"\n"<<r[i].c<<"\n";
192
193
         if(r[i].status=='b'){
194
            ct++;
            195
'<<r[i].c.id;
196
         }
197
198
       if(ct==0) cout<<"---NIL---";
       cout<<"\n\n";</pre>
199
200
       fin.close();
201
       fout.close();
202
       if(id!=-1)
203
       system("pause");
204 }
205
206 int hotel::full(int rtype,int n,int cd ,int cm,int cy){ ///To check if a
room of given type is vacant on a given day
        int a=0,b=0,c=0,d=0,rt=0;
207
208
        ifstream fin("dates.txt");
209
       while(!fin.eof()){
210
         fin>>a>>b>>d>>rt;
211
         if (a==cd&b==cm&d==cy&ctype==rt)
212
213
214
       fin.close();
215
       if(c+n>10) return 0;
216
        else return 1;
217 }
218
219 int hotel::iscorrect(int cnd,int cnm,int cny){ ///To check if booking is
allowed for the check in date
220
        time t timer=time(NULL);
221
        struct tm new1;
222
new1.tm_hour=12;new1.tm_min=2;new1.tm_sec=59;new1.tm_mon=cnm-
1;new1.tm mday=cnd;new1.tm year=cny-1900;
        double sec=difftime(mktime(&new1),timer);
223
224
        if(sec>=0) return 1;
225
        else return 0;
226 }
227
```

```
228 int hotel::iscorrect(int cnd,int cnm,int cny,int cod,int com,int coy){
///To check if the check in date and check out date are proper in terms of
time
229
         struct tm new1;
230
new1.tm_hour=12;new1.tm_min=2;new1.tm_sec=59;new1.tm_mon=cnm-
1;new1.tm mday=cnd;new1.tm year=cny-1900;
231
         struct tm new2;
232
new2.tm_hour=12;new2.tm_min=2;new2.tm_sec=59;new2.tm_mon=com-
1;new2.tm_mday=cod;new2.tm_year=coy-1900;
233
         double sec=difftime(mktime(&new2),mktime(&new1));
234
         if(sec>=0) return 1;
235
         else return 0;
236 }
237
238 int hotel::available(int rtype,int n,int cnd,int cnm,int cny,int cod,int
com, int coy) { ///To check if rooms of a given type are available
239
        int i=cnd , j=cnm,k=cny;
                                                                     ///for
the entered dates
240
        while(i!=cod || j!=com||k!=coy){
241
          if(full(rtype,n,i,j,k)==0) return 0;
242
          if((i==31\&\&(j==1||j==3||j==5||j==7||j==8||j==10))||
(i==30\&\&(j==4||j==6||j==9||j==11))
(i=28\&kj=28\&k\%4!=0)||(i=29\&kj=22\&k\%4==0)|
243
            \{i=0; j++;\}
244
          else if(i=31\&\&j==12) {i=0;j=1;k++;}
245
          i++;
246
        }
247
        ofstream fout("dates.txt",ios::app);
248
        int c=0:
249
        while(c<n){</pre>
250
          i=cnd;
251
          j=cnm;
252
          k=cny;
253
          while(i!=cod || j!=com||k!=coy){
254
            fout<<i<" "<<j<<" "<<rtype<<"\n";
255
            if((i==31\&\&(j==1||j==3||j==5||j==7||j==8||j==10))||
(i==30\&\&(j==4||j==6||j==9||j==11))
(i==28\&\&j==2\&\&k\%4!=0)||(i==29\&\&j==2\&\&k\%4==0))|
256
              \{i=0; j++;\}
257
            else if(i=31\&\&j==12) {i=0;j=1;k++;}
```

```
258
                            i++;
 259
 260
                        c++;
 261
 262
                    fout.close();
 263
                    return 1;
 264 }
 265
 266 int hotel::nodays(int cnd,int cnm,int cny,int cod,int com,int coy){ ///To
find number of days between the check in and check out dates
 267
                    int i=cnd,j=cnm,k=cny;
 268
                    int nodays=0;
 269
                    while(i!=cod||j!=com||k!=coy) {
 270
                         if((i==31\&\&(j==1||j==3||j==5||j==7||j==8||j==10))||
(i=30\&\&(j=4||j=6||j=9||j=11))
(i=28\&\&j=28\&k\%4!=0)||(i=29\&\&j=28\&k\%4==0)|
 271
                             \{i=0; j++;\}
 272
                        else if(i=31\&\&j==12) {i=0;j=1;k++;}
 273
                        i++;
 274
                        nodays++;
 275
 276
                    return nodays;
 277 }
 278
 279 int hotel::checkdate(int cnd,int cnm,int cny,int cod,int com,int coy){
///To check if the check in date and check out date are proper
 280
                  int res=0;
 281
if(cnd)=1&cnm>=1&cnm<=12&cnm<=31&cnm==1||cnm==3||cnm==5||
(cnd <= 30\&\&(cnm == 4||cnm == 6||cnm == 9||cnm == 11)) ||
(cnd < 28\&cnm = 2\&cny\%4! = 0)||(cnd < 29\&cnm = 2\&cnm\%4 = 0)|
res++;
 283
if(cod = 1\&com = 1\&com = 12\&com = 11\&com = 31\&com = 11/com = 31/com = 11/com = 11/
om==7||com==8||com==10||cnm==12)) ||
                       284
(cod <= 28\&com == 2\&coy%4! = 0) | (cod <= 29\&com == 2\&com%4 == 0)) res++;
 285
                  return res;
 286 }
 287
 288 double hotel::discount(int l) { ///To find discount applicable
```

```
289
     if(l==0) return 0;
290
     else if(l==1) return 3;
291
     else if(l==2) return 5;
292
     else if(1 <= 5 \& \& 1 > 2) return 10;
293
     else if(1 < 10 & 10 < 5) return 15;
294
     else return 20;
295 }
296
297 void hotel::homescreen() { ///To display the standard homescreen
298
     system("COLOR B2");
299
***********
301
302
     cout<<"\n\n\n";</pre>
303
     304
     cout<<"\n\n\t\t\tOUR HOTEL ALLOWS NO CANCELLATION OF
BOOKED ROOMS!!ONLY RESCHEDULING IS ALLOWED!!";
305
     string a="admin",b="admin";
306
     pair<string,string> p(a,b);
307
     emps.push_back(p);
308
     system("pause");
309
     loginscreen();
310
     return;
311 }
312
313 void hotel::loginscreen() { ///To choose whether we are an employee
or customer or ADMIN
314
     time_t timer;
315
     timer=time(NULL);
316
     system("COLOR B2");
317
     int i=0;
318
     while(i!=4) {
319
       system("cls");
320
       system("COLOR B2");
321
       322
323
       cout<<"\n\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\end{subset}
PAAR</pre>
```

```
**********
324
325
         cout<<"\n\n\n";</pre>
326
         cout<<"\t\t\t\t\t\t\tSELECT : "</pre>
327
           <<"\n\t\t\t\t\t\t\t1.EMPLOYEE Login"
328
           <<"\n\t\t\t\t\t\t\t2.USER Login"
329
           <<"\n\t\t\t\t\t\t\t\t3.ADMIN Login"
330
           <<"\n\t\t\t\t\t\t\t4.EXIT";
331
         cin>>i;
332
         switch(i) {
333
           case 1:{
334
             emplogin();
335
           }
336
           break;
337
           case 2:{
338
             userlogin();
339
           }
340
           break;
341
           case 4:{
342
             system("cls");
343
             system("COLOR 07");
344
             time_t timer1;
345
             timer1=time(NULL);
346
347
             cout<<"\n\n\n\n\t\t\t\t\t\t\----- | ----- |---- |</pre>
-----
            1 1"
                    <<"\n\t\t\t\t\t\t | | | | | | | | | |
348
  -| | | "
349
                    <<"\n\t\t\t\t\t\t | ----- | | | ___-
1 | | | | | |
350
                    <<"\n\t\t\t\t\t\t | | | | | | | -|
1 | | "
351
                    _ _____
352
             delay(500);
             system("color 17");
353
354
             delay(500);
355
             system("color 27");
356
             delay(500);
357
             system("COLOR 37");
```

```
358
           delay(500);
359
           system("color 47");
360
           delay(500);
           system("color 57");
361
362
           delay(500);
363
           system("color 67");
364
           delay(500);
365
           system("color 07");
366
           delay(500);
367
368
         break;
369
         case 3: {
370
           system("cls");
371
           adminlogin();
372
373
         break;
374
         default:
375
           cout<<"\n\n\t\t\t\tENTER CORRECTLY : ";</pre>
376
           delay(2000);
377
        }
378
       }
379 }
380
381 void hotel::viewdetails(int id){ ///To view details of a customer
382
      ifstream fin("users.txt");
383
      customer c;
384
      while(!fin.eof()) {
385
        fin>>c;
386
        if(c.id==id) break;
387
       }
388
      system("cls");
389
      time_t timer;
390
      timer=time(NULL);
391
      system("COLOR B2");
392
      393
***********
395
396
       cout<<"\n\n\t\t\t\tNAME : ";</pre>
```

```
397
       puts(c.name);
398
       cout<<"\n\t\t\tADDRESS : ";</pre>
399
       puts(c.address);
       cout<<"\n\t\t\tAGE : "<<c.age<<"\n\t\t\tID : "<<c.id<<'\n';</pre>
400
401
       system("pause");
402 }
403
404 void hotel::userlogin() {
405
       system("cls");
406
       time t timer;
407
       timer=time(NULL);
408
       system("COLOR B2");
409
       410
***********
412
413
       int k=0, i=1;
414
       while(i==1){
415
        cout<<"\n\n\t\t\t\tEnter your ID : ";</pre>
416
        cin>>k:
417
        int l=0;
418
        ifstream fin("users.txt");
419
        customer c;
420
        system("cls");
421
        cout<<"\n\n\n\n\n\t\t\t\t\t\Searching....";</pre>
422
        delay(1000);
423
        cout << ".";
424
        delay(1000);
425
        cout<<"..";
426
        delay(1000);
427
        cout<<"..";
428
        while(fin>>c) {
429
         if(c.id==k){
430
           1++;
431
           break;
432
         }
433
434
        fin.close();
435
        if(l==0) {
```

```
436
            i=0;
437
             system("cls");
438
             cout<<"\n\n\t\t\t\t\NO SUCH RECORD!!Click 1 to enter again 2 to</pre>
exit";
439
             while(i!=1&&i!=2){
440
              cin>>i;
              if (i==2) return;
441
442
              else if(i!=1) {
443
                  system("cls");
444
                  cout<<"\n\n\t\t\t\tEnter proper number.....(1 to enter 2 to
exit)";
445
                  delay(2000);
446
              }
447
             }
448
          }
449
          else{
450
            int j=0;
451
            while(j!=4) {
452
              system("cls");
453
              system("COLOR B2");
454
              time_t timer1;
455
              timer1=time(NULL);
456
              struct tm* time1=localtime(&timer1);
457
              system("COLOR B2");
458
              459
              cout<<"\n\n\t\t\t\t\t\tWELCOME ";</pre>
460
              puts(c.name);
461
              cout<<"\n\t\t\t\t\tID : "<<c.id;</pre>
462
              fin.open("rooms.txt");
463
              int rn,cnt=0;
464
              char st:
465
              customer d;
466
              while(fin>>rn&&fin>>st&&fin>>d){
467
                if(d.id==c.id) {
468
                  if(cnt==0)
469
                    cout<<"\n\t\t\t\t\tROOMS ALLOTTED: ";</pre>
470
                  cout<<rn<<'('<<d.rtype<<") ";</pre>
471
                  cnt++;
               }
472
473
474
              cout<<"\n\n";</pre>
475
              fin.close();
```

```
476
            fin.open("rooms.txt");
477
            int roo=0;
478
            cnt=0;
479
            while(fin>>rn&&fin>>st&&fin>>d){
480
             if(d.codate==time1->tm_mday&&d.comonth==time1-
>tm_mon+1&&d.coyear==time1->tm_year+1900&&d.id==c.id) {
              if(cnt==0) cout<<"\n\t\t\t\t\tROOMS TO BE VACATED: ";</pre>
481
              cout<<rn<<'('<<d.rtype<<") ";</pre>
482
483
              cnt++;
484
             }
485
486
            if(cnt!=0)
487
             cout<<"\n\t\t\t\tHOPE YOU ENJOYED YOUR STAY WITH US!!";</pre>
488
            fin.close();
489
***********
491
492
            cout<<"\n\n\n";</pre>
493
            cout<<"\t\t\t\tSELECT :\n ";</pre>
494
            cout<<"\n\n\t\t\t\t1.VIEW DETAILS "</pre>
495
              <="\n\t\t\t\t2.VIEW AVAILABLE DISCOUNT"
496
              <<"\n\t\t\t3.CHECK AVAILABILITY "
497
              <<"\n\t\t\t4.LOGOUT";
498
            cout << "\n\t\t\tENTER YOUR CHOICE....";</pre>
499
            cin>>j;
500
            switch(j){
501
             case 1:{
502
               system("cls");
503
               viewdetails(c.id);
504
             }
505
             break;
506
             case 2:{
507
               system("cls");
508
               fin.open("users.txt");
509
               int l=0;
510
               customer d;
511
               while(fin>>d)
512
                if(d.id==c.id) l++;
513
               fin.close();
```

```
514
                   cout<<"\n\n\t\t\tYOU ARE ELIGIBLE FOR A DISCOUNT OF :</pre>
"<<discount(I)<<"%";
515
                   system("pause");
516
                }
517
                break;
518
                case 3:{
519
                   system("cls");
520
                  int cnd,cnm,com,cod,coy,cny,n,rt;
521
                  int j=1;
522
                   while(j==1){
523
                     cout<<"\n\n\t\t\tEnter the check in date,check in</pre>
month, check in year:";
524
                    cin>>cnd>>cnm>>cny;
525
                     cout<<"\n\t\t\t\tEnter the check out date,check out</pre>
month, check out year:";
526
                     cin>>cod>>com>>coy;
527
if(iscorrect(cnd,cnm,cny)==0||iscorrect(cnd,cnm,cny,cod,com,coy)==0) {
                      system("cls");
528
529
                       cout << "\n\n\t\t\t\tCAN'T CHECK AVAILABIITY FOR THE</pre>
ENTERED DATE!!";
530
                      cout<<"\n\t\t\t\t\t\t\tCLICK 1 TO ENTER ANOTHER</pre>
DATE, ANY OTHER NUMBER TO EXIT";
531
                       cin>>j;
532
                     }
533
                    else j=-1;
534
535
                  if(j!=-1) break;
536
                  cout<<"\n\t\t\tEnter number of rooms required in the</pre>
selected dates: ";
537
                   cin>>n:
538
                   cout<<"\n\t\t\tEnter the room type(1. A.C Deluxe 2. A.C
Luxury 3. NON-A.C): ";
539
                   cin>>rt;
540
                  int k=available(rt,n,cnd,cnm,cny,cod,com,coy);
541
                  if(k==1) {
542
                     system("cls");
                     cout<<"\n\n\n\t\t\t\tROOMS AVAILABLE IN THE</pre>
543
SELECTED DATES!!!HURRY UP AND BOOK FAST!!";
544
                   }
545
                   else{
546
                     system("cls");
```

```
547
                   cout<<"\n\n\n\t\t\t\tSORRY!!SELECTED NUMBER OF</pre>
ROOMS NOT AVAILABLE IN THE SELECTED DATES....\n\n\t\tCHECK FOR AN
ALTERNATIVE!!";
548
549
                 cout<<"\n";
550
                 system("pause");
              }
551
552
              break;
553
              case 4:{
554
                 system("cls");
555
                 556
557
                 delay(1000);
558
              }
559
              break;
560
              default:
561
                 system("cls");
562
                 cout<<"\n\n\n\t\t\t\tENTER CORRECTLY!!";</pre>
563
                 delay(2000);
564
565
566
567
568
       return;
569 }
570
571 string hotel::encDec(string& a,char key) { ///To encrypt and decrypt
the employee password
572
       string out = a;
573
       for (int i = 0; i < out.size(); i++)
574
         out[i] = out[i] ^ key;
575
       return out;
576 }
577
578 void hotel::addtorecord(customer &c){ ///To add a customer object to
file
579
       ofstream fout("users.txt",ios::app);
580
       fout<<c;
581
       fout.close();
582 }
583
584 int hotel::id() { ///To assign new id for the customer
```

```
585
      int v=1200;
586
      fstream file("id.txt",ios::in);
587
      file>>v;
588
      v++;
589
      file.close();
590
      file.open("id.txt",ios::out|ios::trunc);
591
      file<<v<<"\n";
592
      file.close();
593
      return v;
594 }
595
      void hotel::adminlogin(){ ///for logging into the admin account
596
        int i=-1;
597
       while(i!=0) {
598
        system("cls");
599
        time t timer;
600
        timer=time(NULL);
601
        system("COLOR B2");
602
        603
604
        ***********
605
606
        cout<<"\n\n\n";</pre>
607
        string a,b;
608
        char c;
609
        cout<<"\n\n\t\t\tUSERNAME : ";</pre>
610
        cin>>a;
611
        cout << "\n\n\t\t\t\tPASSWORD : ";</pre>
612
        c= getch();
613
        while(c!='\r'&&c!=' '&&c!='\n') {
614
          if(c!='\b'){
615
          cout<<"*";
616
          b.push back(c);
617
618
          else if(c=='\b'){cout<<'\b'<<" "<<'\b';b.erase(b.size()-1,1);}
619
          c=_getch();
        }
620
621
        if(a=="admin"\&\&b=="admin") i=0;
622
        system("cls");
623
        if(i!=0){
```

```
624
        cout<<"\n\n\n\t\tWRONG USERNAME AND/OR PASSWORD!!!!!DO</pre>
YOU WANT TO ENTER AGAIN? (1.YES, 2.NO) ";
625
        cin>>i;
626
627
        if (i==2) {return;}
628
629
       system("cls");
630
       cout<<"\n\n\n\n\n\t\t\t\tPROCEEDING.";</pre>
631
        delay(1000);
632
        cout << ".";
633
        delay(1000);
        cout<<"..";
634
635
        delay(1000);
636
        cout<<"..";
637
       while(i!=3) {
638
        system("cls");
639
        system("COLOR B2");
640
        time_t timer1;
641
        timer1=time(NULL);
642
        643
        cout<<"\n\n\t\t\t\tWELCOME ";</pre>
644
        cout<<"admin";</pre>
645
cout<<"\n\t\t\t\t\t\t\t\t\t********* HOTEL PAAR</pre>
646
***********
647
cout<<"\n\n\n";</pre>
648
649
        cout << "\t\t\t\t\t\t\tSELECT YOUR CHOICE : "</pre>
650
        <<"\n\t\t\t\t\t\t1.ADD/MODIFY/REMOVE EMPLOYEE"
651
        <<"\n\t\t\t\t\t\t\t2.GENERATE REPORT"
652
        <<"\n\t\t\t\t\t\t3.EXIT";
653
        cin>>i;
654
        switch(i){
655
           case 1: addemp("admin");
656
           break;
657
           case 2: {
658
             system("cls");
659
             string dt;
660
             int id,cnt=0;
661
             double revenue;
```

```
662
                fstream fin("revenue.txt",ios::in);
663
                fin.get();
664
                while(getline(fin,dt,'\n')&&fin>>id&&fin>>revenue){
665
                  cout<<"\n\n\t\t\t\tDATE AND TIME OF VACATING:</pre>
"<<dt<<"\n\t\t\t\tID: "<<id<<"\n\t\t\t\tAMOUNT: "<<revenue;
666
                  cnt++;
667
                  fin.get();
668
                }
669
                cout<<dt<<endl;</pre>
670
                if(cnt==0) cout<<"\n\n\t\t\t\t\t\tNO REVENUE UPDATED TILL</pre>
NOW!!";
671
                fin.close();
672
                system("pause");
673
             }
674
             break;
675
             case 3:{
676
                system("cls");
677
                cout<<"\n\n\t\t\t\t\tLOGGING YOU OUT....";</pre>
678
                delay(500);
679
                cout<<"...";
680
                delay(750);
681
                cout<<"...";
682
                delay(750);
                cout<<"..";
683
684
                delay(500);
             }
685
686
             break;
687
             default:{
688
                cout<<"\n\n\t\t\t\t\tENTER PROPER NUMBER!!";</pre>
689
             }
690
         }
691
       }
692 }
693
694 void hotel::emplogin() { ///for logging into employee account
695
          int i=-1;
696
          vector<pair<string,string> >::iterator it=emps.begin();
697
          while(i!=0) {
698
             system("cls");
699
             time_t timer;
700
             timer=time(NULL);
701
             system("COLOR B2");
```

```
702
          703
***********
705
706
          cout<<"\n\n\n";</pre>
707
          string a,b;
708
          char c;
709
          cout<<"\n\n\t\t\tUSERNAME : ";</pre>
710
          cin>>a:
711
          cout<<"\n\n\t\t\tPASSWORD : ";</pre>
712
          c=_getch();
713
          while(c!='\r'&&c!=' '&&c!='\n') {
714
            if(c!='\b'){
715
            cout<<"*";
716
            b.push_back(c);
717
718
            else if(c=='\b'){cout<<'\b'<<" "<<'\b';b.erase(b.size()-1,1);}
719
            c=_getch();
720
721
          vector<pair<string,string> >::iterator its=emps.begin();
722
          while(its!=emps.end()){
723
            if(its->first==a\&\&its->second==b) \{i=0;it=its;\}
724
            its++;
725
726
          system("cls");
727
          if(i!=0){
728
           cout<<"\n\n\n\t\tWRONG USERNAME AND/OR</pre>
PASSWORD!!!!!DO YOU WANT TO ENTER AGAIN? (1.YES, 2.NO) ";
729
           cin>>i;
730
731
          if (i==2) {return;}
732
733
        system("cls");
734
        cout<<"\n\n\n\n\n\t\t\t\tPROCEEDING.";</pre>
735
        delay(1000);
736
        cout << ".";
737
        delay(1000);
738
        cout<<"..";
739
        delay(1000);
```

```
740
        cout<<"..";
741
        i=0;
742
        while(i!=8) {
743
          system("cls");
744
          system("COLOR B2");
745
          time_t timer1;
746
          timer1=time(NULL);
747
          748
          cout<<"\n\n\t\t\t\tWELCOME ";</pre>
749
          cout<<it->first;
750
752
753
          cout<<"\n\n\n";</pre>
754
          cout << "\t\t\t\t\t\t\tSELECT YOUR CHOICE : "</pre>
755
          <<"\n\t\t\t\t\t\t\t1.BOOK ROOM"
756
          <<"\n\t\t\t\t\t\t\t\t2.VACATE ROOM"
757
          <="\n\t\t\t\t\t\t\t\t\t\t\t\3.VIEW CUSTOMER DETAILS"
758
          <<"\n\t\t\t\t\t\t\t4.CHECK AVAILABILITY"
759
          <<"\n\t\t\t\t\t\t\t5.ADD/MODIFY/REMOVE EMPLOYEE"
760
          <<"\n\t\t\t\t\t\t\t6.GENERATE BILL"
761
          <<"\n\t\t\t\t\t\t\t\t7.RESCHEDULE"
762
          <<"\n\t\t\t\t\t\t\t\t8.LOGOUT";
763
          cin>>i;
764
          switch(i) {
765
            case 1:{
766
              system("cls");
767
              cout<<"\n\n\n\n\t\t\t\tPROCEEDING TO BOOKING</pre>
PORTAL....";
768
              delay(1000);
              cout<<"...";
769
770
              delay(500);
771
              cout<<"...";
772
              delay(500);
773
              book();
774
775
            break;
776
            case 2:{
777
              system("cls");
```

```
778
                   cout<<"\n\n\n\n\t\t\t\tPLEASE WAIT .....";</pre>
779
                   delay(2000);
780
                   system("cls");
781
                   int id;
782
                   cout<<"\n\t\t\tEnter user id to vacate!!";</pre>
783
                   cin>>id;
784
                   vacate(id);
785
786
                break;
787
                case 3:{
788
                   system("cls");
789
                   int z=0;
790
                   while(z!=1\&\&z!=2){
791
                     cout<<"\n\n\t\t\tDATE SEARCH OR NAME</pre>
SEARCH?(1.DATE SEARCH,2.NAME SEARCH)";
792
                     cin>>z;
793
                     system("cls");
794
                    if(z!=1\&\&z!=2)
795
                     cout<<"\n\n\t\t\tENTER PROPER DETAILS";</pre>
796
                   }
                  if (z==1) {
797
798
                     dsearch();
799
800
                   else {
801
                     nsearch();
802
                   }
803
804
                break;
805
                case 4: {
806
                   system("cls");
807
                   int cnd,cnm,com,cod,coy,cny,n,rt;
808
                   int j=1;
809
                   while(j==1){
810
                     cout<<"\n\n\t\t\tEnter the check in date,check in</pre>
month, check in year:";
811
                     cin>>cnd>>cnm>>cny;
812
                     cout<<"\n\t\t\tEnter the check out date,check out</pre>
month, check out year:";
813
                     cin>>cod>>com>>coy;
814
if(iscorrect(cnd,cnm,cny)==0||iscorrect(cnd,cnm,cny,cod,com,coy)==0) {
815
                       system("cls");
```

```
816
                       cout<<"\n\n\t\t\t\tCAN'T CHECK AVAILABIITY FOR THE</pre>
ENTERED DATE!!";
817
                       cout<<"\n\t\t\tCLICK 1 TO ENTER ANOTHER DATE,ANY</pre>
OTHER NUMBER TO EXIT";
                       cin>>j;
819
                     }
820
                     else j=-1;
821
822
                     if(j!=-1) break;
823
                     cout<<"\n\t\t\tEnter number of rooms required in the</pre>
selected dates: ";
824
                     cin>>n;
825
                     cout<<"\n\t\t\tEnter the room type(1. A.C Deluxe 2. A.C</pre>
Luxury 3. NON-A.C): ";
826
                     cin>>rt;
827
                     int k=available(rt,n,cnd,cnm,cny,cod,com,coy);
                     if(k==1) {
828
829
                        system("cls");
830
                        cout<<"\n\n\n\t\t\t\tROOMS AVAILABLE IN THE</pre>
SELECTED DATES!!!HURRY UP AND BOOK FAST!!";
831
                     }
832
                     else{
833
                       system("cls");
834
                       cout<<"\n\n\n\t\t\t\SORRY!!SELECTED NUMBER OF</pre>
ROOMS NOT AVAILABLE IN THE SELECTED DATES....\n\n\t\tCHECK FOR AN
ALTERNATIVE!!";
835
836
                     cout<<"\n";
837
                     system("pause");
838
839
                break:
840
                case 5: {
841
                  addemp(it->first);
842
843
                break;
844
                case 6: {
845
                  system("cls");
846
                  int checkd=0,checkg=0,id,cod,com,coy;
847
                  while(checkd==0||checkg==0){
848
                     cout<<"\n\n\t\t\tEnter your ID: ";</pre>
849
                     cin>>id:
850
                     cout<<"\n\t\t\tEnter check out date,month and year: ";</pre>
```

```
851
                     cin>>cod>>com>>coy;
852
                    checkd=1;
853
                    checkg=1;
854
                    if(checkdate(cod,com,coy,1,1,2018)!=2){
855
                       checkd=0;
856
                       cout<<"\n\t\t\tEnter proper dates!!";</pre>
857
                       delay(1500);
858
                    }
859
                    checkg=genbill(id,cod,com,coy);
860
                    if(checkg==0){
                       cout<<"\n\t\t\tEnter proper details!!";</pre>
861
862
                       delay(1500);
863
                    }
                  }
864
               }
865
866
               break;
867
               case 7:{
868
                  usermanage(3);
               }
869
870
               break;
871
               case 8: {
872
                  system("cls");
873
                  cout<<"\n\n\n\n\n\t\t\t\t\tLOGGING YOU OUT ....";</pre>
874
                  delay(1000);
875
                  cout<<"...";
876
                  delay(500);
877
                  cout<<"...";
878
                  delay(500);
879
                  return;
880
               }
881
               break;
882
               default:
883
                  cout<<"\n\n\t\t\t\tENTER CORRECTLY!!";</pre>
                  delay(2000);
884
885
            }
886
          }
887 }
888
889 void hotel::addemp(string its) { ///For adding employee
890
          system("cls");
891
          system("COLOR B2");
892
```

```
*";
893
         ***********
894
cout<<"\n\n\n";</pre>
895
896
         string nam=its,pass;
897
         cout<<"\t\t\t\t\tEnter the username : ";</pre>
898
         cin.ignore(1,'\n');
899
         while(nam==its){
900
         getline(cin,nam);
901
         if(nam==its) cout<<"\n\t\t\t\t\tYOU CANT ADD OR MODIFY</pre>
YOURSELF!!....ENTER PROPER NAME!!";
902
903
         int i=0;
904
         vector<pair<string,string> >::iterator it=emps.begin();
905
         for (;it!=emps.end();it++){
906
           if (it->first==nam) {
907
             while(i!=1 && i!=2 &&i!=3) {
908
               if(nam!="admin")
909
910
                 cout<<"\n\t\t\t\tThe username exists.....click 1 to change
password 2 to exit 3 to remove employee";
911
                 cin>>i;
912
               }
913
               else{
914
                 cout<<"\n\t\t\t\t\tYOU CANT MODIFY OR REMOVE</pre>
ADMIN!!":
915
                 delay(2000);
916
                 return;
917
               }
918
               if(i==1) {cout<<"\n\t\t\t\tEnter the new</pre>
password";cin>>pass;it->second=pass;}
919
               else if (i==2) return;
920
               else if(i!=3){
921
                 system("cls");
922
                 cout<<"\n\n\t\t\t\t\tEnter proper number....";</pre>
923
                 delay(2000);
924
                 system("cls");
925
               }
```

```
926
               }
927
928
          }
929
          if(i==0) {
930
            cout<<"\n\n\t\t\t\tEnter the password : ";</pre>
931
            getline(cin,pass);
932
            srand(time(NULL));
933
            char k=rand()%257;
934
            string tn=encDec(nam,k),tp=encDec(pass,k);
935
            ofstream fout("emp.txt",ios::app);
936
            fout<<tn<<' '<<tp<<' '<<k<<'\n';
937
            emps.push back(make pair(nam,pass));
938
            fout.close();
            cout<<"\n\n\t\t\t\t\SUCCESSFULLY ADDED EMPLOYEE!!";</pre>
939
940
            delay(2000);
941
          }
942
          else if (i==1) {
            fstream file1("emp.txt",ios::in);
943
944
            fstream file2("temp.txt",ios::out);
945
            string tnam, tpass;
946
            char tmp,k;
947
            while(file1>>tnam&&file1>>tpass&&file1>>tmp){
948
               if (encDec(tnam,tmp)==nam) k=tmp;
              else file2<<tnam<<' '<<tpass<<' '<<tmp<<'\n';
949
950
            }
951
            file2 << encDec(nam,k) << '' << encDec(pass,k) << '' << k << '\n';
952
            file1.close();
953
            file2.close();
954
            remove("emp.txt");
955
            rename("temp.txt","emp.txt");
956
            for(int i=0; i < emps.size(); i++){
957
               if(emps[i].first==nam) {emps[i].first="";emps[i].second="";}
958
            }
959
            cout<<"\n\n\t\t\t\t\tSUCCESSFULLY CHANGED PASSWORD!!";</pre>
            delay(2000);
960
961
962
          else if(i==3) {
            fstream file1("emp.txt",ios::in);
963
            fstream file2("temp.txt",ios::out);
964
965
            string tnam, tpass;
966
            char tmp;
967
            while(file1>>tnam&&file1>>tpass&&file1>>tmp){
```

```
968
            if (encDec(tnam,tmp)==nam);
            else file2<<tnam<<' '<<tpass<<' '<<tmp<<'\n';
969
970
          }
971
          file1.close();
972
          file2.close();
973
          remove("emp.txt");
974
          rename("temp.txt","emp.txt");
975
          for(int i=0;i<emps.size();i++){</pre>
976
            if(emps[i].first==nam) {emps[i].first="";emps[i].second="";}
977
          }
978
          cout<<"\n\t\t\t\t\tSUCCESSFULLY REMOVED EMPLOYEE!!";</pre>
979
          delay(2000);
980
        }
981 }
982
983 void hotel::usermanage(int key=1) { ///To manage bookings
984
        system("cls");
985
        system("COLOR B2");
986
        time_t timer1;
987
        timer1=time(NULL);
        988
989
990
        **********
991
992
        if (key==1) {
993
          customer c;
994
          cout<<"\n\t\t\tEnter name : ";</pre>
995
          cin.ignore(1,'\n');
996
          gets(c.name);
997
          cout<<"\n\t\t\tEnter address : ";</pre>
998
          gets(c.address);
999
           cout<<"\n\t\t\tEnter age : ";</pre>
1000
           cin>>c.age;
1001
           cout<<"\n\t\t\tEnter number of members : ";</pre>
1002
           cin>>c.memb;
1003
           cout<<"\n\t\t\tDo you want laundry services(RS.50 per day per</pre>
person)(1 for YES,2 for NO): ";
1004
           cin>>c.laundry;
1005
           cout<<"\n\t\t\tDo you want food services(RS.800 per day per</pre>
```

```
person)(1 for YES,2 for NO): ";
1006
             cin>>c.food;
1007
             int chumm=1;
1008
             while(chumm==1){
                cout<<"\n\t\t\tEnter Contact Number: ";</pre>
1009
1010
                cin>>c.phno;
1011
                if(c.phno.length()==8) cout<<"\n\t\t\t\tENTER YOUR PHONE</pre>
NUMBER WITH PROPER STD CODE: ";
1012
                else if(c.phno.length()!=10&&c.phno.length()!=11){
cout<<"\n\t\t\tENTER PROPER PHONE NUMBER....1 to enter again any other</pre>
number to exit";
1013
                cin>>chumm;}
1014
                else chumm=2;
1015
                if(chumm!=1&&chumm!=2) return;
1016
1017
             cout << "\n\t\t\tEnter Room type (1. A.C Deluxe 2. A.C Luxury 3.
NON-A.C) ";
1018
             cin>>c.rtype;
1019
             int j=1, s=1;
1020
            while(j==1||s==1){
1021
             cout<<"\n\t\t\tEnter check in date,month,year (DD MM YYYY) : ";</pre>
1022
             cin>>c.cndate>>c.cnmonth>>c.cnyear;
1023
             cout<<"\n\t\t\tEnter check out date,month,year (DD MM YYYY) :</pre>
1024
             cin>>c.codate>>c.comonth>>c.coyear;
1025
if(iscorrect(c.cndate,c.cnmonth,c.cnyear)==0|liscorrect(c.cndate,c.cnmonth,c.cnye
ar,c.codate,c.comonth,c.coyear)==0||
1026
checkdate(c.cndate,c.cnmonth,c.cnyear,c.codate,c.comonth,c.coyear)!=2||nodays(
c.cndate,c.cnmonth,c.cnyear,c.codate,c.comonth,c.coyear)==0) {
1027
                system("cls");
1028
                cout<<"\n\n\t\t\t\tBOOKING NOT ALLOWED FOR THE</pre>
ENTERED DATE!!";
1029
                cout<<"\n\t\t\tCLICK 1 TO ENTER ANOTHER DATE,2 TO EXIT";</pre>
1030
                cin>>j;
                if(j==2) return;
1031
1032
1033
             else{
1034
                i=0;
1035
                int chumma=1;
1036
                while(chumma==1){
```

```
1037
                  cout<<"\n\n\t\t\tEnter number of rooms required : ";</pre>
1038
                  cin>>c.nroom;
1039
                  if(c.memb/c.nroom>3) cout<<"\n\n\t\t\tRequired rooms not</pre>
enough according to our policy(A MAXIMUM OF THREE PER ROOM ONLY)!!";
1040
                  else chumma=2;
1041
                }
1042
                int
k=available(c.rtype,c.nroom,c.cndate,c.cnmonth,c.cnyear,c.codate,c.comonth,c.coy
ear);
1043
                if(k==0) {
1044
                   system("cls");
1045
                   cout<<"\n\t\t\t\tSORRY!!ENTERED NUMBER OF ROOMS NOT</pre>
AVAILABLE IN THE SELECTED DATES AND ROOM TYPE!!";
1046
                   cout<<"\n\t\t\tCLICK 1 TO ENTER ANOTHER DATE AND/OR</pre>
ROOMS,2 TO EXIT";
1047
                   cin>>s;
1048
                   if(s==2) return;
1049
                }
1050
                else if (k==1) {
1051
                   s=0;
1052
                   system("cls");
1053
                   cout<<"\n\n\n\t\t\t\tCONGRATULATIONS!!YOUR ROOMS</pre>
HAVE BEEN BOOKED!!";
1054
                   c.id=id();
1055
                   cout<<"\n\n\t\t\tYOUR ID is : "<<c.id;</pre>
1056
                   addtorecord(c);
1057
                   system("pause");
1058
                   genbill(c.id,c.codate,c.comonth,c.coyear);
1059
                   cout<<"\n\n";
1060
                }
1061
1062
1063
1064
           else if (key==2) {
1065
             int m=0;
1066
             customer d,c;
1067
             int l=0;
1068
             cout<<"\n\n\t\t\tEnter user ID : ";</pre>
1069
             while(l==0){
1070
             cin>>m;
1071
             ifstream fin("users.txt");
1072
             while(l==0 \&\& fin>>d){
```

```
1073
                if(d.id == m) \{c=d;
1074
                1++;}
1075
1076
              fin.close();
1077
              if (l==0) {
1078
                system("cls");
1079
                int i=1:
1080
                cout<<"\n\n\t\t\t\tWRONG USER ID!!TYPE 1 TO ENTER AGAIN</pre>
AND ANY OTHER NUMBER TO EXIT: ";
1081
                cin>>i:
1082
                if(i!=1) return;
1083
                else
1084
                cout<<"\n\n\t\t\t\tENTER CORRECT ID : ";</pre>
1085
              }
1086
              }
1087
              system("cls");
1088
              cout<<"\n\n\t\t\tEnter age: ";</pre>
1089
              cin>>c.age;
              cout<<"\n\t\t\tEnter number of members : ";</pre>
1090
1091
              cin>>c.memb;
1092
              cout<<"\n\t\t\tDo you want laundry services(RS.50 per day per</pre>
person)(1 for YES,2 for NO): ";
1093
              cin>>c.laundry;
1094
              cout<<"\n\t\t\tDo of days you want food services(RS.800 per day</pre>
per person)(1 for YES,2 for NO): ";
1095
              cin>>c.food;
1096
              int chumm=1;
1097
              while(chumm==1){
1098
                c.phno="";
1099
                cout<<"\n\t\t\tEnter New Contact Number: ";</pre>
1100
                cin>>c.phno;
1101
                if(c.phno.length()==8){ cout<<"\n\t\t\t\ENTER YOUR PHONE</pre>
NUMBER WITH PROPER STD CODE...PRESS ANY KEY....";}
1102
                else if(c.phno.length()!=10&&c.phno.length()!=11){
cout<<"\n\t\t\tENTER PROPER PHONE NUMBER....1 to enter again, any other</pre>
number to exit";
1103
                 cin>>chumm;
1104
1105
                else chumm=2;
1106
                if(chumm!=1&&chumm!=2) return;
1107
              }
              cout<<"\n\n\t\t\tEnter room type (1. A.C Deluxe 2. A.C Luxury</pre>
1108
```

```
3. NON-A.C): ";
1109
             cin>>c.rtype;
1110
             int j = 1, s = 1;
1111
             while(j == 1 || s == 1){
1112
             cout<<"\n\t\t\tEnter check in date,month,year (DD MM YYYY) : ";</pre>
1113
             cin>>c.cndate>>c.cnmonth>>c.cnyear;
1114
             cout<<"\n\t\t\tEnter check out date,month,year (DD MM YYYY) :</pre>
1115
             cin>>c.codate>>c.comonth>>c.coyear;
1116
if(iscorrect(c.cndate,c.cnmonth,c.cnyear)==0|liscorrect(c.cndate,c.cnmonth,c.cnye
ar,c.codate,c.comonth,c.coyear) = = 0
1117
checkdate(c.cndate,c.cnmonth,c.cnyear,c.codate,c.comonth,c.coyear)!=2||nodays(
c.cndate,c.cnmonth,c.cnyear,c.codate,c.comonth,c.coyear)==0) {
1118
                system("cls");
1119
                cout<<"\n\n\t\t\t\tBOOKING NOT ALLOWED FOR ENTERED</pre>
DATES!!!";
1120
                cout<<"\n\n\t\t\t\tCLICK 1 TO ENTER ANOTHER DATE,2 TO</pre>
EXIT":
1121
                cin>>i;
1122
                if(j==2) return;
1123
1124
             else{
1125
                i=0;
1126
                int chumma=1;
1127
                while(chumma==1){
1128
                  cout<<"\n\n\t\t\tEnter number of rooms required : ";</pre>
1129
                  cin>>c.nroom;
1130
                  if(c.memb/c.nroom>3) cout<<"\n\n\t\t\t\tRequired rooms not</pre>
enough according to our policy(A MAXIMUM OF THREE PER ROOM ONLY)!!";
1131
                  else chumma=2;
1132
                }
1133
                int
k=available(c.rtype,c.nroom,c.cndate,c.cnmonth,c.cnyear,c.codate,c.comonth,c.coy
ear);
1134
                if(k==0) {
1135
                  system("cls");
1136
                  cout<<"\n\t\t\tSORRY!!ENTERED NUMBER OF ROOMS NOT</pre>
AVAILABLE IN THE SELECTED DATES AND ROOM TYPE!!";
1137
                  cout<<"\n\t\t\tCLICK 1 TO ENTER ANOTHER DATE AND/OR</pre>
ROOMS,2 TO EXIT";
```

```
1138
               cin>>s:
1139
               if(s==2) return;
1140
1141
             else if (k==1) {
1142
               s=0;
1143
               system("cls");
1144
               cout<<"\n\n\n\t\t\t\tCONGRATULATIONS!!YOUR ROOMS</pre>
HAVE BEEN BOOKED!!";
1145
               cout<<"\n\t\t\tYou are eligible for discount of</pre>
"<<discount(I)<<"%"<<"(as of now)"<<endl;
1146
               addtorecord(c);
1147
               system("pause");
1148
               genbill(c.id,c.codate,c.comonth,c.coyear);
1149
             }
1150
1151
1152
1153
         else if(key==3) {
1154
           int
cnd1,cnm1,cod1,com1,cnd2,cnm2,cod2,com2,cny1,cny2,coy1,coy2,n1=0,n2,i=0,j=0
0;
1155
           system("cls");
1156
           system("COLOR B2");
1157
           time_t timer1;
1158
           timer1=time(NULL);
1159
           1160
cout<<"\n\t\t\t\t\t\t\t\t\t********* EMPLOYEE PORTAL</pre>
***********
1162
1163
1164
           int m=0;
1165
             fstream fin;
1166
             customer d,c;
1167
             int l=0;
             cout<<"\n\n\t\t\tEnter user ID : ";</pre>
1168
1169
             while(l==0){
1170
             cin>>m;
1171
             fin.open("users.txt",ios::in);
1172
             while(l==0\&\&fin>>d){
```

```
1173
                  if(d.id==m) \{c=d;l++;\}
1174
                }
1175
                if (l==0) {
1176
                  system("cls");
1177
                  int i=1;
                  cout<<"\n\n\t\t\tWRONG USER ID!!TYPE 1 TO ENTER AGAIN</pre>
1178
AND ANY OTHER NUMBER TO EXIT: ";
1179
                  cin>>i;
1180
                  if(i!=1) return;
1181
                  else
1182
                  cout<<"\n\n\t\t\tENTER CORRECT ID : ";</pre>
1183
1184
                fin.close();
1185
                }
1186
             j=1;
1187
            while(j==1){
1188
            cout<<"\n\n\t\t\tEnter your current check in date,month and year</pre>
(DD MM YYYY): ";
1189
            cin>>cnd1>>cnm1>>cny1;
1190
            cout<<"\n\n\t\t\tEnter the current check out date,month and year</pre>
(DD MM YYYY): ";
1191
            cin>>cod1>>com1>>coy1;
1192
if(iscorrect(cnd1,cnm1,cny1)==0||iscorrect(cnd1,cnm1,cny1,cod1,com1,coy1)==0
Ш
1193
checkdate(cnd1,cnm1,cny1,cod1,com1,coy1)!=2||nodays(cnd1,cnm1,cny1,cod1,co
m1, coy1) = = 0) {
1194
                system("cls");
1195
                cout<<"\n\n\t\t\t\tRESCHEDULING NOT ALLOWED FOR</pre>
ENTERED DATES!!!":
1196
                cout<<"\n\n\t\t\t\tCLICK 1 TO ENTER ANOTHER DATE,2 TO</pre>
EXIT";
1197
                cin>>j;
                if(j==2) return;
1198
1199
1200
            else j=0;
1201
1202
            fin.open("users.txt");
1203
while(fin>>c&&(c.cndate!=cnd1||c.cnmonth!=cnm1||c.cnyear!=cny1||c.codate!=c
od1||c.comonth!=com1||c.coyear!=coy1||c.id!=m));
```

```
1204
            fin.close();
1205
            int k_{j=1;j=1;}
1206
            int rt=0;
1207
            while(kj = 1 | | j = 1){
1208
            cout<<"\n\n\t\t\tEnter the required check in date,month and year</pre>
(DD MM YYYY): ";
1209
            cin>>cnd2>>cnm2>>cny2;
1210
            cout<<"\n\n\t\t\tEnter the required check out date,month and year</pre>
(DD MM YYYY): ";
1211
            cin>>cod2>>com2>>coy2;
1212
if(iscorrect(cnd2,cnm2,cny2)==0) | iscorrect(cnd2,cnm2,cny2,cod2,com2,coy2)==0
||checkdate(cnd2,cnm2,cny2,cod2,com2,coy2)!=2||
1213
              nodays(cnd2,cnm2,cny2,cod2,com2,coy2)==0) {
1214
                system("cls");
1215
                cout<<"\n\n\t\t\t\tRESCHEDULING NOT ALLOWED FOR</pre>
ENTERED DATES!!";
1216
                cout<<"\n\n\t\t\t\tCLICK 1 TO ENTER ANOTHER DATE,2 TO</pre>
EXIT";
1217
                cin>>kj;
1218
                if(kj==2) return;
1219
            }
1220
            else{
1221
            kj=0;
1222
            n2=c.nroom+2;
1223
            int cc=1,memb;
1224
            while(cc==1){
1225
            cout<<"\n\t\t\tEnter number of members : ";</pre>
1226
            cin>>memb;
1227
            if(memb>c.memb) cout << "Enter a proper number(less than or equal
to what you have given earlier!!)";
1228
            else cc++;
1229
            }
1230
            cout<<"\n\t\t\tDo you want laundry services(RS.50 per day per</pre>
person)(1 for YES,2 for NO): ";
1231
            cin>>c.laundry;
1232
            cout<<"\n\t\t\tDo you want food services(RS.800 per day per</pre>
person)(1 for YES,2 for NO): ";
1233
            cin>>c.food;
            while(c.nroom<n2){</pre>
1234
1235
              cout<<"\n\n\t\t\tNumber of rooms you want to reschedule : ";</pre>
1236
              cin>>n2;
```

```
1237
              if(c.nroom<n2) cout<<"\n\t\t\t\tENTER A PROPER NUMBER(LESS</pre>
THAN OR EQUAL TO THE NUMBER OF ROOMS YOU HAVE ALREADY BOOKED!!";
1238
              else if(c.memb/c.nroom>3) cout<<"\n\t\t\tENTERED NUMBER OF</pre>
ROOMS NOT ENOUGH ACCORDING TO OUR POLICY(A MAXIMUM OF THREE PER
ROOM ONLY)!!";
1239
            }
1240
            n1=c.nroom;
1241
            cout<<"\n\n\t\t\tEnter the room type you want to choose (1. A.C
Deluxe 2. A.C Luxury 3. NON-A.C):";
1242
            cin>>rt;
1243
            int ii=cnd2 , ji=cnm2,ki=cny2,cot=1;
1244
            while((ii!=cod2 || ji!=com2||ki!=coy2)&&cot!=0){
1245
              int
isin=IsInRange(ii,ji,ki,cnd1,cnm1,cny1,cod1,com1,coy1),num=n2;
1246
              if(isin==1\&\&rt==c.rtype);
1247
              else if(full(rt,n2,ii,ji,ki)==0) \{\cot = 0;\}
1248
              if((ii=31\&\&(ji=1||ji=3||ji=5||ji=7||ji=8||ji=10))||
(ii = 30\&\&(ji = 4||ji = 6||ji = 9||ji = 11))||
                (ii = 28\&\&ji = 2\&\&ki\%4! = 0)||(ii = 29\&\&ji = 2\&\&ki\%4 = = 0)|
1249
1250
                \{ii=0; ji++;\}
1251
              else if(ii = 31\&\&ji = 12) {ii = 0;ji = 1;ki + +;}
1252
              ii++;
1253
1254
            if(cot==1) {
1255
                i=1:
1256
                remodate(c.rtype,n2,cnd1,cnm1,cny1,cod1,com1,coy1);
1257
                available(rt,n2,cnd2,cnm2,cny2,cod2,com2,coy2);
1258
            }
1259
            else i=0;
1260
            if(i==0){
1261
              cout<<"\n\n\t\t\tSorry rooms are not available in that date for the</pre>
room type!!";
1262
              cout<<"\n\n\t\t\tEnter 1 to enter again and 2 to exit";</pre>
              cin>>j;
1263
1264
              if(j==2) return;
1265
1266
            else{ j=0; }
1267
1268
1269
            if(i==1) {
1270
               customer f:
1271
               fstream file1("users.txt",ios::in);
```

```
1272
               fstream file2("temp.txt",ios::out|ios::app);
1273
               while(file1>>f){
1274
                if
(f.cndate = cnd1\&\&f.cnmonth = cnm1\&\&f.cnyear = cny1\&\&f.coyear = coy1\&\&f.cod
ate==cod1\&\&f.comonth==com1\&\&f.id==m);
1275
                else file2<<f;
1276
               }
1277
1278
              file1.close();
1279
              file2.close();
              remove("users.txt");
1280
              rename("temp.txt","users.txt");
1281
1282
              f=c;
1283
              f.nroom=n1-n2;
              ofstream fout("users.txt",ios::app);
1284
1285
              fout<<f;
              fout.close();
1286
1287
              f.cndate=cnd2;
              f.cnmonth=cnm2;
1288
1289
              f.codate=cod2;
1290
              f.comonth=com2;
1291
              f.cnyear=cny2;
              f.coyear=coy2;
1292
1293
              f.nroom=n2;
1294
              f.rtype=rt;
1295
              addtorecord(f);
1296
              cout<<"\n\n\t\t\t\tyour booking dates have been changed</pre>
successfully!!";
              system("pause");
1297
1298
              genbill(f.id,f.codate,f.comonth,f.coyear);
1299
           }
1300
       }
1301 }
1302
1303
1304 void hotel::incemps() { ///To include employees
1305
          ifstream fin("emp.txt");
1306
          while(!fin.eof()) {
1307
            string a,b;
1308
            char k;
            fin>>a>>b>>k;
1309
1310
            emps.push_back(make_pair(encDec(a,k),encDec(b,k)));
```

```
1311
        }
1312
        fin.close();
1313 }
1314
1315 void hotel::book(){ ///To book rooms
1316
        system("cls");
1317
        system("COLOR B2");
1318
        time_t timer1;
1319
        timer1=time(NULL);
1320
        1321
1322
        **********
1323
1324
        cout<<"\n\n\n";</pre>
1325
        int i=0;
1326
        while(i!=1&&i!=2){
1327
        cout<<"\t\tDo you have an user ID? (1 for YES 2 for NO) ";</pre>
1328
        cin>>i;
1329
        if(i==2) {
1330
          usermanage(1);
1331
          i=2;
1332
1333
        else if (i==1) {
1334
          usermanage(2);
1335
          i = 1;
1336
        }
1337
        else {
1338
          system("cls");
1339
          cout<<"\n\n\t\t\t\t\t\tPLEASE CHOOSE SUITABLY......";</pre>
1340
        }
        }
1341
1342 }
1343
1344 void hotel::remodate(int rtype,int n,int cnd,int cnm,int cny,int cod,int
com, int coy) { ///To remove given set of date
1345
       fstream file1("dates.txt",ios::in);
1346
       fstream file2("temp.txt",ios::out);
1347
       int i=0, j=0, k=0, rt=0;
1348
       map<pair<int,pair<int,int> >,int > c;
```

```
1349
          file1>>i>>j>>k>>rt;
1350
         while(!file1.eof()){
1351
           if(IsInRange(i,j,k,cnd,cnm,cny,cod,com,coy)==1&&rtype==rt) {
1352
             pair<int,pair<int,int> >temp;
1353
             temp.first=i;
             temp.second.first=j;
1354
1355
             temp.second.second=k;
1356
             if(c.count(temp)==0) c[temp]=1;
1357
             else if(c[temp]<n&&c.count(temp)==1){</pre>
1358
               c[temp]++;
1359
             else file2<<i<" "<<j<<" "<<k<<" "<<rt<<'\n';
1360
1361
           else file2<<i<" "<<j<<" "<<k<<" "<<rt<<'\n';
1362
1363
           file1>>i>>j>>k>>rt;
1364
1365
         file1.close();
1366
         file2.close();
         remove("dates.txt");
1367
         rename("temp.txt","dates.txt");
1368
1369 }
1370
1371 int hotel::genbill(int id,int cod,int com,int coy){ ///To generate bill
           fstream file("users.txt",ios::in);
1372
1373
           vector < customer > c:
1374
           customer d;
1375
           while(file>>d){
1376
if(d.id==id&&d.codate==cod&&d.comonth==com&&d.coyear==coy){c.push_back
(d);
1377
           }
1378
           file.close();
1379
           if(c.size()==0) return 0;
1380
           time_t timer;
1381
           timer=time(NULL);
1382
           struct tm* timers=localtime(&timer);
1383
           system("cls");
1384
           cout<<"\n\n\n\n\n\t\t\t\t\t\t\tPROCEEDING.";</pre>
1385
           cout<<"...";
1386
           delay(500);
1387
           cout < < "...";
1388
           delay(500);
```

```
cout < < "...";
1389
1390
         delay(500);
1391
         system("cls");
1392
         system("color F0");
         1393
1394
         cout<<"\t\t\tUSER ID : "<<id<<endl;</pre>
         cout << "\n-----
1395
1396
         cout<<"\n\t\t\t\t\t\t\t\t\t ********@@@@@@@ HOTEL PAAR
1397
@@@@@@************;
         cout<<"\n-----
1398
           <<"----";
1399
        cout<<"\n S.NO
1400
                                     \t\t\t TITLE
\t\t\tAMOUNT
         cout<<"\n-----
1401
1402
1403
1404
1405
         file.open("users.txt",ios::in);
1406
         int coun=0;
1407
         while(file>>d)
1408
          if(d.id==id) coun++;
1409
         file.close();
1410
         int disc=discount(coun-c.size());
         string a="LUXURY AC ",b=" DELUXE AC ",e="NON AC ";
1411
         for(long int i=0;i<c.size();i++){</pre>
1412
1413
           double billamt:
1414
           cout<<"\n\n
                      "<<i+1<<".\t\t\t\t\t\";
1415
           if(c[i].rtype==1){
1416
             cout<<a;
1417
             billamt=2000;
1418
1419
           else if(c[i].rtype==2){
1420
             cout<<b;
1421
             billamt=2500;
1422
1423
           else {
1424
             cout<<e;
```

```
1425
              billamt=1500;
1426
1427
           cout<<" x"<<c[i].nroom;</pre>
1428
nod=nodays(c[i].cndate,c[i].cnmonth,c[i].cnyear,c[i].codate,c[i].comonth,c[i].coye
ar);
1429
           billamt*=c[i].nroom;
1430
           billamt*=nod;
           cout<<"
                                                       "<<billamt;
1431
                           \t
                                t t t
1432
           double laundry=0;
1433
           if(c[i].laundry!=2)
1434
             laundry=50*nod*c[i].memb;
1435
           else laundry=0;
1436
           billamt+=laundry; ///base fare:50 per day per member
           cout<<"\n\t\t\t\t\t</pre>
LAUNDRY CHARGES
1437
                                                       t \left( t \right)
"<<laundry;
1438
           double food=0;
1439
           if(c[i].food!=2)
1440
             food=800*c[i].memb*nod;
1441
           else food=0;
1442
           billamt+=food; //base fare:800 per day per member
1443
           cout<<"\n\t\t\t\t FOOD CHARGES</pre>
                                                         \t
                                                              \t
                 "<<food;
t\t
           cout<<"\n\n";</pre>
1444
           cout<<"\n-----
1445
              <<"----";
1446
1447
           double gst=0.12*billamt;
           cout<<"\n
                                       t t t t t t
TOTAL AMOUNT: "<<" "<<billamt;
1449
           cout<<"\n
                                       DISCOUNT: "<<disc<<"%"<<"
1450
              <<disc/100.0*billamt;
1451
           cout<<"\n
                                        t\dot t\dot t\dot t
GST: "<<"12%"<<"
                      "<<qst;
           billamt=billamt-(disc/100.0*billamt)+gst;
1452
           cout<<"\n\n</pre>
1453
                                            t t t t t t
NET AMOUNT: "<<"
                  "<<billamt;
           cout<<"\n\n------
             <<"----";
1455
1456
           delay(1000);
```

```
1457
          }
1458
          cout<<"\n\n\n\n\n";</pre>
1459
          system("pause");
1460
          system("cls");
1461
1462
      int hotel::genbill(int id){
1463
          ifstream fin("users.txt");
1464
          vector < customer > c;
1465
          customer d;
1466
          time t timer;
1467
          timer=time(NULL);
1468
          struct tm* timers=localtime(&timer);
1469
          while(fin>>d){
1470
             if(id==d.id&&d.codate==timers->tm_mday&&d.comonth==timers-
>tm_mon+1&&d.coyear==timers->tm_year+1900) c.push_back(d);
1471
1472
          fin.close();
1473
          fin.open("rooms.txt");
1474
          int rn,countt=0;char st;
1475
          while(fin>>rn&&fin>>st&&fin>>d){
1476
             if(id==d.id&&id==d.id&&d.codate==timers-
>tm mday&&d.comonth==timers->tm mon+1&&d.coyear==timers-
>tm_year+1900) countt++;
1477
          }
1478
          if(c.size()==0){
1479
             return 0;
1480
1481
          else if(countt==0){
1482
             return -1;
1483
          }
1484
          else {
1485
             system("cls");
1486
             cout<<"\n\n\n\n\n\t\t\t\t\t\t\tPROCEEDING.";</pre>
1487
             cout<<"...";
1488
             delay(500);
1489
             cout<<"...";
1490
             delay(500);
1491
             cout<<"...";
1492
             delay(500);
1493
             system("cls");
1494
             system("color F0");
1495
```

```
cout<<"\t\tUSER ID: "<<id<<endl;</pre>
1496
1497
          cout << "\n-----
1498
          cout<<"\n\t\t\t\t\t\t\t\t\t ********@@@@@@@ HOTEL PAAR
1499
@@@@@@*********:
          cout<<"\n-----
1500
1501
          cout<<"\n S.NO</pre>
1502
                                     t\t
                                            TITLE
\t\t\tAMOUNT
1503
         <<"-----";
1504
        cout<<"\n-----
1505
<<"----";
1506
1507
          fin.open("users.txt");
1508
          int coun=0;
1509
          while(fin>>d)
1510
            if(d.id==id) coun++;
1511
          fin.close();
1512
          double payamt=0;
          int disc=discount(coun-c.size());
1513
          string a="LUXURY AC ",b="DELUXE AC ",e="NON AC ";
1514
1515
          for(long int i=0;i<c.size();i++){</pre>
            double billamt;
1516
1517
            cout<<"\n\n "<<i+1<<".\t\t\t\t\t\";
1518
            if(c[i].rtype==1){
1519
              cout<<a;
1520
              billamt=2000;
1521
1522
            else if(c[i].rtype==2){
1523
              cout<<b;
1524
              billamt=2500;
1525
             }
1526
            else {
1527
              cout<<e;
1528
              billamt=1500;
1529
1530
            cout<<" x"<<c[i].nroom;</pre>
1531
            int
```

```
nod=nodays(c[i].cndate,c[i].cnmonth,c[i].cnyear,c[i].codate,c[i].comonth,c[i].coye
ar);
1532
              billamt*=c[i].nroom;
1533
              billamt*=nod;
              cout<<"
1534
                             \t
                                  t\t\t
"<<billamt;
1535
              double laundry=0;
1536
              if(c[i].laundry!=2)
1537
               laundry=50*nod*c[i].memb;
1538
              else laundry=0;
1539
              billamt+=laundry; //base fare:50 per day per member
              cout<<"\n\t\t\t\t\t LAUNDRY CHARGES</pre>
1540
                                                          t \left( t \right)
"<<laundry;
1541
              double food=0;
1542
              if(c[i].food!=2)
               food=800*c[i].memb*nod;
1543
1544
              else food=0;
1545
              billamt+=food; ///base fare:800 per day per member
              cout<<"\n\t\t\t\t\t FOOD CHARGES</pre>
1546
                                                            \t
                                                                 \t
t\t
                  "<<food;
1547
              cout<<"\n\n";</pre>
1548
              cout<<"\n-----
1549
1550
              double gst=0.12*billamt;
1551
              cout<<"\n
                                          t t t t t t
TOTAL AMOUNT: "<<" "<<billamt;
1552
             cout<<"\n
                                          t t t t t t
DISCOUNT: "<<disc<<"%"<<"
1553
                <<disc/100.0*billamt;
1554
              cout<<"\n
                                           t t t t t t
GST: "<<"12%"<<"
                      "<<gst;
1555
              billamt=billamt-(disc/100.0*billamt)+gst;
1556
             cout<<"\n\n
                                               t\dot t\dot t\dot t
NET AMOUNT: "<<"
                   "<<billamt;
1557
              cout<<"\n\n-----
                <<"----";
1558
1559
              delay(1000);
1560
              payamt+=billamt;
1561
1562
        cout<<"\n\n\t\t\t\t\t\t\t\tAMOUNT TO BE PAID BY YOU: "<<pre>represent;
```

```
1563
          ofstream fout("revenue.txt",ios::app);
          fout < < ctime(&timer) < < id << " " < < payamt < < "\n";
1564
1565
          fout.close();
1566
1567
        cout<<"\n\n\n\n\n";</pre>
1568
        system("pause");
1569
        system("cls");
1570
        return 1;
1571 }
1572
1573 void hotel::vacate(int id){ ///To vacate room and generating bill
1574
          system("cls");
1575
          fstream fin("users.txt",ios::in);
1576
          customer c;
1577
          time_t timer;
1578
          timer=time(NULL);
1579
          struct tm* timers=localtime(&timer);
1580
          int cd=0, ci=0;
1581
          while(fin>>c&&cd==0){
            if(c.codate==timers->tm mday&&c.comonth==timers-
1582
>tm_mon+1&&c.coyear==timers->tm_year+1900&&c.id==id){
1583
              ci=genbill(id);
1584
              system("cls");
              system("color 07");
1585
              cout<<"\n\n\n\n\t\t\t\t\t\t\t\t\t\t\tTHANK</pre>
1586
YOU!!!\n\n\n\t\t\t\t\t\t\t\t\t\t\t\t\t\ISIT AGAIN!!!";
              delay(500);
1587
1588
              system("color 17");
1589
              delay(500);
1590
              system("color 27");
1591
              delay(500);
1592
              system("COLOR 37");
1593
              delay(500);
1594
              system("color 47");
1595
              delay(500);
              system("color 57");
1596
1597
              delay(500);
              system("color 67");
1598
1599
              delay(500);
1600
              system("color 07");
1601
              delay(1000);
1602
              cd++;
```

```
1603
remodate(c.rtype,c.nroom,c.cndate,c.cnmonth,c.cnyear,c.codate,c.comonth,c.coyea
r);
1604
          }
1605
1606
          if(cd==0) cout<<"\n\n\t\t\t\tVACATING A ROOM CAN BE DONE ONLY</pre>
ON THE CHECK OUT DATES!!":
          else if(ci==-1) cout<<"\n\n\t\t\tALREADY VACATED!!";</pre>
1607
1608
          fin.close();
1609
          delay(1000);
1610
          allroom(id);
1611 }
1612
1613 int hotel::IsInRange(int m,int n,int o,int cnd,int cnm,int cny,int cod,int
com, int coy) { ///To check if a given date is in a set of dates
         int i=cnd , j=cnm,k=cny,ct=0;
1614
1615
         while((i!=cod || j!=com||k!=coy)&&(i!=m||j!=n||k!=o)){
1616
           if((i=31\&\&(j=1||j==3||j==5||j==7||j==8||j==10))||
(i=30\&\&(j=4||j=6||j=9||j=11))
(i=28\&\&j=2\&\&k\%4!=0)||(i=29\&\&j=2\&\&k\%4==0)|
1617
            \{i=0; j++;\}
1618
          else if(i=31\&\&j==12){i=0;j=1;k++;}
1619
          i++;
1620
1621
         if(i==cod\&\&j==com) return 0;
1622
         else return 1;
1623 }
1624
1625 void hotel::dsearch(){ ///To search details based on date
1626
        int da,m,y;
1627
        ifstream fin("users.txt");
1628
        customer d; int co=0,ch=1;
1629
        while(ch==1){
1630
        system("cls");
1631
        int chec=1;
1632
         while(chec==1){
         cout<<"\n\t\t\tENTER THE DATE,MONTH AND YEAR TO CHECK";</pre>
1633
1634
         cin>>da>>m>>y;
1635
         chec=2;
1636
         if(checkdate(da,m,y,1,1,2018)!=2) {cout<<"\n\t\t\tENTER PROPER</pre>
DETAILS!!";chec=1;}
1637
         }
```

```
1638
         system("cls");
1639
         cout<< "\n\n\t\t\tLIST OF ALL RECORDS ON GIVEN DATE: ";</pre>
1640
        while(fin>>d&&!fin.eof()){
           if((d.cndate==da && d.cnmonth==m&&d.cnyear==y)){}
1641
1642
            cout<<"\n\n\t\t\t\tCHECKED IN.....";</pre>
            cout<<"\n\t\t\t\t\tNAME: "<<d.name</pre>
1643
1644
               <<"\n\t\t\t\t\tID: "<<d.id
1645
               <<"\n\t\t\t\t\t\tADDRESS: "<<d.address
1646
               <<"\n\t\t\t\t\tAGE: "<<d.age
               <<"\n\t\t\t\t\t\tPHONE NUMBER: "<<d.phno
1647
1648
               <<"\n\t\t\t\t\t\tCHECK IN DATE:
"<<d.cndate<<"/"<<d.cnmonth<<"/"<<d.cnyear
1649
               <<"\n\t\t\t\t\tCHECK OUT DATE:
"<<d.codate<<"/"<<d.comonth<<"/"<<d.coyear
1650
               <<"\n\t\t\t\t\t\tROOM TYPE: "<<d.rtype
1651
               <<"\n\t\t\t\t\t\t\tNO OF ROOMS: "<<d.nroom;
1652
               co++;
1653
               ch=2;
1654
           delay(1000);
1655
1656
           if((d.codate==da&&d.comonth==m&&d.coyear==y)){}
1657
            cout<<"\n\n\t\t\tCHECKED OUT.....";</pre>
1658
            cout<<"\n\t\t\t\t\t\tNAME: "<<d.name</pre>
1659
               <<"\n\t\t\t\t\tID: "<<d.id
               <<"\n\t\t\t\t\t\tADDRESS: "<<d.address
1660
               <<"\n\t\t\t\t\tAGE: "<<d.age
1661
               <<"\n\t\t\t\t\t\tPHONE NUMBER: "<<d.phno
1662
1663
               <<"\n\t\t\t\t\t\tCHECK IN DATE:
"<<d.cndate<<"/"<<d.cnmonth<<"/"<<d.cnyear
1664
               <<"\n\t\t\t\t\t\tCHECK OUT DATE:
"<<d.codate<<"/"<<d.comonth<<"/"<<d.coyear
1665
               <<"\n\t\t\t\t\tROOM TYPE: "<<d.rtype
1666
               <="\n\t\t\t\t\t\t\tNO OF ROOMS: "<<d.nroom;
1667
               co++;
1668
              ch=2;
           delay(1000);
1669
           }
1670
1671
if(IsInRange(da,m,y,d.cndate,d.cnmonth,d.cnyear,d.codate,d.comonth,d.coyear)=
=1){}
1672
            cout<<"\n\n\t\t\t\STAYED.....";</pre>
1673
            cout<<"\n\t\t\t\t\t\tNAME: "<<d.name</pre>
```

```
1674
               <<"\n\t\t\t\t\tID: "<<d.id
1675
               <<"\n\t\t\t\t\t\tADDRESS: "<<d.address
1676
               <<"\n\t\t\t\t\tAGE: "<<d.age
1677
               <="\n\t\t\t\t\t\tPHONE NUMBER: "<<d.phno
1678
               <<"\n\t\t\t\t\t\tCHECK IN DATE:
"<<d.cndate<<"/"<<d.cnmonth<<"/"<<d.cnyear
               <<"\n\t\t\t\t\t\tCHECK OUT DATE:
1679
"<<d.codate<<"/"<<d.comonth<<"/"<<d.coyear
               <<"\n\t\t\t\t\tROOM TYPE: "<<d.rtype
1680
1681
               <="\n\t\t\t\t\t\t\tNO OF ROOMS: "<<d.nroom;
1682
              co++;
1683
              ch=2;
1684
            delay(1000);
1685
           }
1686
1687
        if(co==0){
            cout<<"\n\t\t\t\t\t\t\tNO RECORDS FOUND...";</pre>
1688
1689
            cout<<"\n\t\t\t\t\tENTER 1 TO ENTER ANOTHER DATE,ENTER 2 TO</pre>
EXIT";
1690
            cin>>ch;
1691
            if(ch==2) return;
1692
        }
1693
1694
       system("pause");
1695
        fin.close();
1696 }
1697
1698
1699 void hotel::nsearch(){ ///To search details based on name
1700
         ifstream fin("users.txt");
1701
         customer d;
1702
         char n[50];
1703
         int ch=1, co=0;
1704
         while(ch==1){
1705
           system("cls");
1706
           cout<<"\n\n\t\t\t\tENTER NAME TO SEARCH: ";</pre>
1707
           cin.ignore(1,'\n');
1708
           cin.getline(n,50,'\n');
1709
           system("cls");
1710
           cout<< "\n\n\t\t\tLIST OF ALL RECORDS: ";</pre>
1711
           while(fin>>d){
1712
            if(strcmpi(d.name,n)==0){
```

```
1713
             cout<<"\n\t\t\t\t\t\tNAME: "<<d.name</pre>
1714
              <<"\n\t\t\t\t\tID: "<<d.id
1715
              <<"\n\t\t\t\t\t\tADDRESS: "<<d.address
1716
              <<"\n\t\t\t\t\tAGE: "<<d.age
1717
              <="\n\t\t\t\t\t\t\tPHONE NUMBER: "<<d.phno
1718
              <<"\n\t\t\t\t\t\tCHECK IN DATE:
"<<d.cndate<<"/"<<d.cnmonth<<"/"<<d.cnyear
1719
              <<"\n\t\t\t\t\t\tCHECK OUT DATE:
"<<d.codate<<"/"<<d.comonth<<"/"<<d.coyear
1720
              <<"\n\t\t\t\t\tROOM TYPE: "<<d.rtype
1721
              <<"\n\t\t\t\t\t\t\tNO OF ROOMS: "<<d.nroom;
1722
              co++;
1723
              ch=2;
1724
              delay(1000);
              cout<<"\n\n";</pre>
1725
1726
             }
          }
1727
1728
          if(co==0){
1729
             cout << "\n\n\t\t\t\t\tNO RECORDS FOUND";</pre>
1730
             cout<<"\n\t\t\t1. TO ENTER ANOTHER NAME,2. TO EXIT";</pre>
1731
             cin>>ch;
1732
             if(ch==2) return;
1733
          }
1734
         }
1735
         fin.close();
1736
         system("pause");
1737 }
1738
1739
1740 ///MAIN FUNCTION.....
1741 int main() {
1742
        system("mode con COLS=700");
1743
        ShowWindow(GetConsoleWindow(),SW_MAXIMIZE);
1744
SendMessage(GetConsoleWindow(), WM_SYSKEYDOWN, VK_RETURN, 0x20000000);
1745
        hotel h;
1746
        h.allroom();
1747
        h.incemps();
1748
        h.homescreen();
1749 }
1750
1751
```

Output Screen Shots:

WELCOME SCREEN

```
VACATING TODAY (ROOM RUMBERS): --NIL---

NOTEL SCHOOL/TES*

NOTEL SCHO
```

(OR)

HOME SCREEN

```
SELECT :

1. PROCOVER Login
2. JUNEN Login
3. ANONY Login
4. EXIT
```

Employee Login Screen

```
Min. 34n. 22. 39.25 (29. 3032)

SESENAMI : andre

PAREMOND : *****
```

User Login Screen

```
#PER Jan 38 40:35/31 2018

#PER JAN 38 40:35/31 2018

#INTER JAN 38 40:35/31 2018

#INTER JAN 38 40:35/31 2018
```

Admin Login Screen

```
#PET Jan 28 18:19139 2413

USERMANE : admin

PASSAGNO : ******_
```

Employee Login Screen:

```
FY! Jun-20 12:49:48 1018

USERNAME : empt

PASSHORD : *****
```

Employee Login Portal - Screen:

```
HELCOME HMp1

SELECT YOUR CHOICE :
    1.8000 80000
    2.WEATE 80000
    3.VERN CONTOWER OFFAILS
    4.COMEC WAITABLELITY
    5.ADD/WODDFY/REHOVE EMPLOYEE
    6.UHERATE EILL
    7.RESCHERRELIT
    8.LOGOUT
```

1. Employee Portal Screen Allowing Booking:

```
PROCEEDING TO BOOKING PORTAL.....
```

a. New User

```
b.
Do you have an user SEP (1 For YES 2 for NO) 2.
                                                                         Mon Jan 22 21:82:87 2918
                     ********* EMPLOYEE PORTAL
 Enter name : K V Swaminathan
 Enter address : 1/9, Postal colony iii street, West Mambalam, Chennai - 33
 Enter age 1 79
 Enter number of mumbers | 14
 Do you want laundry services(RS.50 per day per person)(1 for YES,2 for NO) : 2
 Do you want food services(RS.800 per day per person)(1 for YES,2 for NO) | 2
 Enter Contact Number: 9940630095
 Enter Room type (1. A.C Deluxe 2. A.C Luxury 3. NON-A.C) 3
 Enter check in date, month, year (DD MM YYYY) : 23 01 2018
 Enter check out date, month, year (DD MH YYYY) : 24 83 2918
 Enter number of rooms required : 4_
     CONGRATULATIONS!!YOUR ROOMS HAVE BEEN BOOKED!!
     YOUR ID is: 1206Press any key to continue . . .
```

b. Existing user ID

```
## BMPLOVEE PORTAL

Enter user ID : 1285
```

Employee Portal – Bill generated after Showing Successful Booking:



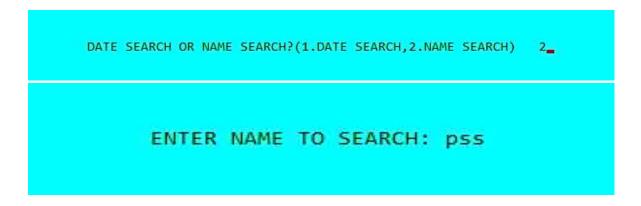
- 2. Employee Portal Vacate a room:
 - a. Screen for Data entry to vacate a room

```
Enter user id to vacate!!1207_
```

b. Screen Showing it Done successfully



- 3. Employee Portal View Customer Details
 - a. Through name



```
LIST OF ALL RECORDS:

NAME: PSS
ID: 1207
ADDRESS: 14, cauvery flats, Bhaktha st, kumbakonam
AGE: 72
PHONE NUMBER: 9262401867
CHECK IN DATE: 23/1/2018
CHECK OUT DATE: 24/1/2018
ROOM TYPE: 1
NO OF ROOMS: 3

NAME: PSS
ID: 1207
ADDRESS: 14, cauvery flats, Bhaktha st, kumbakonam
AGE: 72
PHONE NUMBER: 9962301867
CHECK IN DATE: 24/1/2018
CHECK OUT DATE: 24/1/2018
CHECK OUT DATE: 26/1/2018
ROOM TYPE: 2
NO OF ROOMS: 1
```

b. Through Date

DATE SEARCH OR NAME SEARCH? (1.DATE SEARCH, 2.NAME SEARCH) 1

ENTER THE DATE, MONTH AND YEAR TO CHECK 26 01 2018_

```
LIST OF ALL RECORDS ON GIVEN DATE:
CHECKED IN.....
                NAME: srividya
                ID: 1205
                ADDRESS: AA58, sakaji street, kmubakonam
                AGE: 43
                PHONE NUMBER: 8682094884
                CHECK IN DATE: 26/1/2018
                CHECK OUT DATE: 27/1/2018
                ROOM TYPE: 1
                NO OF ROOMS: 10
STAYED....
                NAME: srividya
                ID: 1205
                ADDRESS: AA58, sakaji street, kmubakonam
                AGE: 43
                PHONE NUMBER: 8682094884
                CHECK IN DATE: 26/1/2018
                CHECK OUT DATE: 27/1/2018
                ROOM TYPE: 1
                NO OF ROOMS: 10
CHECKED OUT....
                NAME: PSS
                ID: 1207
                ADDRESS: 14, cauvery flats, Bhaktha st, kumbakonam
                AGE: 72
                PHONE NUMBER: 9962301867
                CHECK IN DATE: 24/1/2018
                CHECK OUT DATE: 26/1/2018
                ROOM TYPE: 2
                NO OF ROOMS: 1Press any key to continue . . . _
```

4. Employee Portal - Checking availability of rooms

```
SELECT YOUR CHEER:

SELECT YOUR CHEER:

1.0000 HOOM

1.VALATE HOOM
```

5. Employee Portal – Add / modify/remove an employee

```
SELECT FOLE CHOICE:

IL DOCK HOUSE

LANGUATE HOUSE

LANGUATE

LANGUATE
```

a) Adding an employee:

b) Modifying an Employee:

```
Enter the username : 1208

The username exists.....click 1 to change password 2 to exit 3 to remove employee 1
Enter the new password admin

SUCCESSFULLY CHANGED PASSWORD!
```

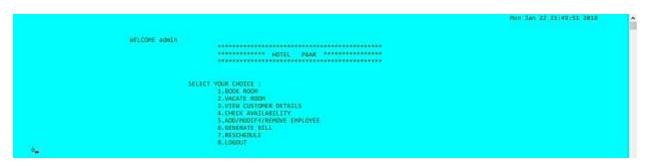
c) Deleting an Employee:

```
Enter the username : 1209

The username exists.....click 1 to change password 2 to exit 3 to remove employee 3

SUCCESSFULLY REMOVED EMPLOYEE():
```

6. Employee Portal – Generate a bill



```
Enter your ID: 1205

Enter check out date,month and year: 12 01 2019

Enter proper details!!

Enter your ID: 1205

Enter check out date,month and year: 23 01 2018

Enter proper details!!

Enter your ID: 1205

Enter check out date,month and year: 23 01 2018

Enter proper details!!

Enter your ID: 1205

Enter check out date,month and year: 22 01 2018

Enter proper details!!

Enter your ID: 1205

Enter check out date,month and year: 22 01 2018

Enter proper details!!

Enter your ID: _____
```

Enter your ID: 1207
Enter check out date, month and year: 26 01 2018

| | ********** | NOTEL | PAAR 8000000 | ••••• | | |
|---|---|-------|---|-------|--|----------------------|
| 0 | TITLE | | | | | AMOUNT |
| | DELLIME AC X1 EARNEY CHARGES FOOD CHARGES | | | | | 5899 389 4800 |
| | | | *************************************** | | TOTAL AMOUNT: DESCOUNT: 3% GST : 12% | 18188 383 1212 |
| | | | | | NET AMOUNT: | 11009 |
| | | **** | | | | |

7. Employee Portal – Choice of Rescheduling the booking already done:

```
HELCOME MMPS

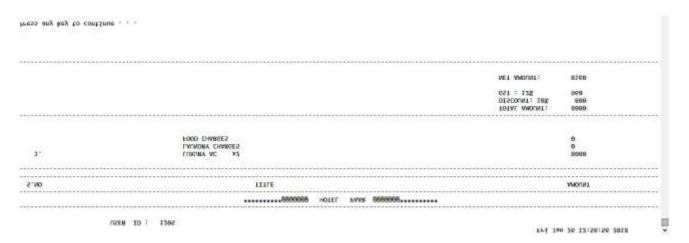
SELECT YOUR CHOTCE |
1.800K 800M
2.NACATE MDDM
1.VIEN CHOTCE DETAILS
4.00ECG ANALASELLITY
5.00DV/MODIFY/MEMULE EMPLOYEE
6.SINGATE MDDM
7.WESTORIUS EMPLOYEE
6.SINGATE MDDM
8.LOGOUT

8.LOGOUT
```

Data entry for rescheduling:

Employee Portal Screen showing successful rescheduling of dates of booking with valid entries:

The Newly generated Bill after rescheduling:



Employee Login: Some Important Error Handling:

I) Wrong Login:

If an employee do typographical error during login or any strange person tries to handle it with a wrong employee login entry, like the one shown below,

```
INSEL SAAR

USERMANE : wmp1

PASSMOND : *****
```

Screen showing wrong entry:

```
WRONG USERNAME AND/OR PASSWORD!!!!!DO YOU WANT TO ENTER AGAIN? (1.YES, 2.NO)
```

II) During booking, due to data entry

```
Enter age: 43

Enter number of members: 7

Do you want laundry services(RS.50 per day per person)(1 for YES,2 for NO): 2

Do of days you want food services(RS.800 per day per person)(1 for YES,2 for NO): 2

Enter New Contact Number: 24616064

ENTER YOUR PHONE NUMBER WITH PROPER STD CODE...PRESS ANY KEY....
Enter New Contact Number: 044024616064

ENTER PROPER PHONE NUMBER....1 to enter again, any other number to exit1

Enter New Contact Number: 044 24616064
```

III) During vacating a Room:

```
VACATING A ROOM CAN BE DONE ONLY ON THE CHECK OUT DATES!!
```

If already vacated:

VISIT MANIMIII

ALREADY VACATEDII Fri Jan 25 14:06:18 2018

Press any key to continue . . .

IV) During Resheduling:

```
Inter user ID : 1285

Enter your current check in date, wonth and year (DO PM YYYY) : 20 05 2018

Enter the current check out date, month and year (DO PM YYYY) : 38 05 2018

Enter the required check in date, month and year (DO PM YYYY) : 38 05 2018

Enter the required check in date, month and year (DO PM YYYY) : 27 02 2018

Enter the required check out date, munth and year (DO PM YYYY) : 27 02 2018

Enter number of munber : 5

Do you want laundry services (RS.Se per day per person)(I for YES,2 for NO) : 2

Do you want food services (RS.De per day per person)(I for YES,2 for NO) : 2

Number of rooms you want to reachedule : 3

SNITE & PHOMER NUMBER((ESS THAN) OR EQUAL TO THE NUMBER OF ROOMS YOU HAVE ALREADY NUMBER():

Totar the room type you want to choose (I. A.C Delume T. S.C Lusury J. NON-B.C):I

your hooking dates have been changed successfully!!Press any way to continue . . .
```

USER PORTAL

User Login Screen

```
SELECT :
1.EMPLOYEE LogIn
2.USEN Lugin
3.EXCMIN Login
4.EXII
```

User - Intermediate input Screen before Booking: DATA ENTRY SCREEN for USER DETAILS

```
FPE Jan 20 80:15:21 JOHN
MOREL PAUR

Enter your 10 : 1205
```

Intermediate screen before logging in USER PORTAL

```
Searching....<u>.</u>
```

1. USER Portal - Choice of View details:

```
MELCOPE SPINIDAD

ID : 1285

DOSE PORTAL

SELECT :

1. VIEW DETAILS
2. VIEW AVAILABLE DISCOUNT
3. CHECK AVAILABLE TY
4. LOOKUT
ENTER VOUR CHOICE.....
```

```
MAME : smixidya

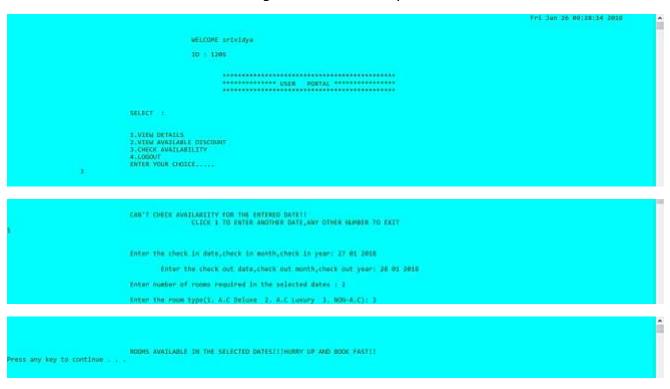
ACOMISS : AAta, sakeji street, kaubakonam

AGE : 43

ID : 1205
```

2. USER Portal - Choice of knowing Discount details:

3. USER Portal - Choice of knowing Room Availability:



4. USER PORTAL _ LOG OUT

```
LOGGINS YOU OUT......
```

USER Portal - Some important Error Handling

I) Wrong LoginIf the user enters a wrong user id, like the one shown here,

```
Fritze- year- III : 125a
```

The output screen for wrong user id entry and the new re entry of id:

```
NO SUCH RECORDICIES 2 to enter again 2 to act 1
Enter your ID : 1287
```

- II) Checking Availability:
- i) If the date entered is prior to the current date, then the display screen is

```
Enter the check in date, check in month, check in year: 23 03 2018

Enter the check out date, check out month, check out year: 24 01 2018
```

ii) If the entered date have all the rooms of a given type fully occupied,

```
Enter the check in date, check in month, check in year:26 01 2018

Enter the check out date, check out month, check out year:27 01 2018

Enter number of rooms required in the selected dates: 2

Enter the room type(1. A.C Deluxe 2. A.C Luxury 3. NON-A.C): 1

SORRYHISELECTED NUMBER OF ROOMS NOT AVAILABLE IN THE SELECTED DATES....

CHECK FOR AN ALTERNATIVE!!
```

iii) Interactive screen till the desired dates are entered correctly:

```
CAN'T CHECK AVAILABILTY FOR THE ENTERED DATE!!
CLICK 1 TO ENTER ANOTHER DATE, ANY OTHER NUMBER TO EXIT

1

Enter the check in date, check in month, check in year: 27 01 2018

Enter the check out date, check out month, check out year: 28 01 2018

Enter number of rooms required in the selected dates: 3

Enter the room type(1. A.C Deluxe 2. A.C Luxury 3. NON-A.C): 1
```

```
ROOMS AVAILABLE IN THE SELECTED DATES!!!HURRY UP AND BOOK FAST!!

Press any key to continue . . . .
```

Admin Portal

```
MELCOME subside

SELECT YOUR CHOCCE :
1:ADD/MODIFICEMENT EMPLOYEE

J/GENERATE REPORT 1:EXIT...

FRom last 22:28:59:83 2888
```

```
SELECT YOUR CHOICE:
-1.600x ROOM
2.VACATE ROOM
3.VIEW CASTOMER DETAILS
4.OMECK AVAILABILITY
S.ADD/MODIEY/REMOVE EMPLOYEE
8.GENERATE BILL
7.RESCHEDULE
8.1000NT
```

Home screen for Admin Login

```
SELECT :
I.IMPLOYEE login
2.USER login
I.JOHIN login
4.DXII
```

Admin Login Screen:

```
PROCEEDING....
```

```
Into the dispressor coupt

The dispressor origin. ....illeb 2 to shange passagred 2 to ociz 2 to resons employee 1g

Pri Jan 28 1119:30 2018

WELCOME admits

SELECT YOUR CHOICE:
1.ADD/NODITY/MENOWE 18PROWEE
2.GENERATE SERVERT
3.EXIT:
```

1. a. Admin Portal allowing ADDing Employee:

```
Enter the username | emp2

Kinter the password = admin
```

b.Admin Portal allowing Modification in Employee Details:

Validation of Change in password:

```
Enter the username | cmp1
The username exists.....click 1 to change password 2 to exit 2 to remove employee 1
Enter the new password admin
SUCCESSFULLY CHAMBED PASSWORD!!
```

c. Remove an employee:

```
finter the username : emp4

The username exists......flick 1 to change panoward 2 to exit 3 to remove employee 3
```

ADMIN Screen Showing validatation of removal:

```
Enter the username : emp&

The username exists.....click 1 to change password 2 to exit 2 to remove employee 3

SUCCESSRULLY REMOVED EMPLOYEE!:
```

Admin Portal - to Generate Reports:

```
HELCOME admin

HUTSL PRANK

HUTSL PRANK

SHLECT VOLM CHOICE :
1,800/MODIFY/KSHOWE EMPLOYEE
2,6EMERATE REPORT
5,EXIT
```

Admin Portal - Screen showing the revenue details:

```
NO REVENUE LADATED TILL NOW!!Press any key to continue . . . .
```

Status responsible for the above screen:

```
VACATING TODAY (ROOM RUPBERS) | -MIL-

ROOM ALLOTMENTS TODAY
100(1) --> 1285
101(2) --> 1287
101(1) --> 1285
100(1) --> 1286
100(1) --> 1286
115(1) --> 1286
115(1) --> 1286
115(1) --> 1286
115(1) --> 1286
115(1) --> 1286
115(1) --> 1286
117(1) --> 1286
127(1) --> 1286
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127(1) --> 1286
1
```

Admin Portal – generate report - (after vacating a room):

```
HELCOME admin

SELECT VOLUE CHOICE :
1.8000 800M
2.MALATE BOOM
3.VIEW COSTOMER DETAILS
4.00ECX ANNIABELITY
5.400/WODEPV/HEMOVE EMPLOYEE
6.00HEARTE BILL
2.MESCHERALE
8.LOGOUT
```

Enter your ID: 1385
Enter check out date, month and year: 26 81 2018
Enter proper details:
Enter your ID: 1385
Enter sheck out date, month and year: 24 81 2018.

| ISSER TO | 1205 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | 441 | 55 2016 | PCT Jan 26 67 | A41 | A41 | PCT Jan 26 67 | A41 | PCT Jan

DATE AND TIME OF VACATING: Fel Jan 26 13:25:19 2018 ID: 1207 AMOUNT: 11889

Press any key to continue . . .

1000000 10000000

900307 ANNUARI II Peri Jan 26 12:556:56 3886

(#589 ALLOHREUM'S VOIOUS 800(X) ---> X386 800(X

Press only key to continue . . .



CONCLUSION:

The project titled "HOTEL MANAGEMENT" done by ABISHEK.S AND AHMED SHAMSUDEEN for the academic year 2017-2018 has been completed and compiled, tested, and executed successfully.

It is a successful attempt to simulate a Hotel management system without the usage of graphics.

It is a try to bring it as close to reality as possible.

REFERENCES:

- 1. www.cplusplus.com
- 2. www.cppreference.com
- 3. www.stackexchange.com