

```

1  #include<iostream>
2  #include<iomanip>
3  #include<windows.h>
4  using namespace std;
5  void menu();
6  class Managemenu
7  {
8  protected:
9      string username;
10
11 public:
12     Managemenu()
13     {
14         cout << " \n\n\n\n\n\n\n\n\t\t Enter your name to continue as an admin: ";
15         cin >> username;
16         system(" CLS ");
17         menu();
18     }
19     ~Managemenu()
20     {
21     }
22 }
23
24 };
25 class Customers
26 {
27 public :
28     static string name;
29     static string gender;
30
31     int mobileNo, idNo ;
32
33     void getDetails()
34     {
35         cout << " Please enter your details \n ";
36         cout << " Enter name " << endl;
37         cin >> name;
38         cout << " Enter gender " << endl;
39         cin >> gender;
40         cout << " Enter phone number " << endl;
41         cin >> mobileNo;
42         cout << " Enter ID number " << endl;
43         cin >> idNo;
44         system (" CLS ");
45
46         cout << " Your details have been saved successfully : Press 1 to redirect to main menu ";
47
48         int choice;
49         cin >> choice;
50         if( choice == 1)
51         {
52             menu();
53         }else
54         {
55             menu ();
56         }
57     }
58
59 };
60 string Customers :: name;
61 string Customers :: gender;
62
63 class Booking
64 {
65 public:
66     int bookroom;

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67     static int cost;
68     static int roomchoice;
69     string roomType [3] = { " Comfy ", " Superior " , " Elephant " };
70
71     void getroomDetails()
72     {
73
74         for ( int i= 0; i < 3; i++)
75         {
76             cout << i+1 << " Room " << roomType[i] << endl;
77         }
78         cout << " Enter room choice " << endl;
79         cin >> roomchoice;
80         if( roomchoice == 1)
81         {
82             cout << " ***** COMFY ROOM ***** \n";
83             cout << " The room accommodates up to a maximum of 4 tenants ,";
84             cout << " the cost of the room is 2000 per head per month . ";
85             cout << " Water and accommodation is settled for you. You only pay for electricity. ";
86             cout << " \n ";
87             cout << " PRESS 1 TO BOOK COMFY ROOM OR ANY OTHER KEY TO REDIRECT TO PREVIOUS MENU " << endl;
88             cin>> bookroom;
89             system ( " CLS ");
90             if( bookroom == 1)
91             {
92                 cout << " Pay in order to book comfy room. Enter Amount " <<endl;
93                 cin >> cost;
94                 if( cost == 2000)
95                 {
96                     cout << " You have successfully booked COMFY ROOM. " <<endl;
97                     cout << " Go to charges management option in the main menu to take your receipt " <<
endl;
98                     menu();
99                 }else
100                 {
101                     menu();
102                 }
103             }else
104             {
105                 getroomDetails();
106             }
107
108         }else if( roomchoice == 2)
109         {
110             cout << " ***** SUPERIOR ROOM ***** " <<endl;
111             cout << " The room accommodates up to a maximum of 4 tenants ,";
112             cout << " the cost of the room is 2500 per head per month . ";
113             cout << " Water and accommodation is settled for you. You only pay for electricity. ";
114             cout << " \n ";
115             cout << " PRESS 1 TO BOOK SUPERIOR ROOM OR ANY OTHER KEY TO REDIRECT TO PREVIOUS MENU " << endl;
116             cin>> bookroom;
117             system( " CLS");
118             if( bookroom == 1)
119             {
120                 cout << " Pay in order to book superior room. Enter amount " <<endl;
121                 cin >> cost;
122                 if( cost == 2500)
123                 {
124                     cout << " You have successfully booked SUPERIOR ROOM. " <<endl;
125                     cout << " Go to charges management option in the main menu to take your receipt " <<
endl;
126                     menu();
127                 }else
128                 {
129                     getroomDetails();
130

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131     }
132 }
133
134 }else if( roomchoice ==3)
135 {
136     cout << " ***** ELEPHANT ROOM ***** " <<endl;
137     cout << " The room accommodates up to a maximum of 2 tenants ,";
138     cout << " the cost of the room is 3000 per head per month . ";
139     cout << " Water and accommodation is settled for you. You only pay for electricity. ";
140     cout << " \n ";
141     cout << " PRESS 1 TO BOOK ELEPHANT ROOM OR ANY OTHER KEY TO REDIRECT TO PREVIOUS MENU " << endl;
142     cin >> bookroom;
143     system(" CLS");
144
145     if( bookroom == 1)
146     {
147         cout << " Pay in order to book superior room. Enter amount " <<endl;
148         cin >> cost;
149         if( cost == 3000)
150         {
151             cout << " You have successfully booked ELEPHANT ROOM. " <<endl;
152             cout << " Go to charges management option in the main menu to take your receipt " <<
endl;
153             menu();
154
155         }else
156         {
157             getroomDetails();
158         }
159     }
160 }else
161 {
162     menu();
163 }
164
165
166 }
167
168 };
169 int Booking :: cost;
170 int Booking :: roomchoice;
171
172 class Charges
173 {
174 public:
175     void Printreceipt()
176     {
177         cout << " Customer name " << Customers :: name << endl;
178         cout << " Gender "<< Customers :: gender << endl;
179         cout << " Room cost " << Booking :: cost <<endl;
180         cout << " Room choice " << Booking :: roomchoice <<endl;
181     }
182
183 };
184 void menu()
185 {
186     Customers cl;
187     Booking b1;
188     Charges s1;
189     int mainchoice;
190     cout << " ***** PERREZ SYSTEM MANAGEMENT OPTION ***** " <<endl;
191     cout << " 1. CUSTOMER MANAGEMENT \n";
192     cout << " 2. BOOKING MANAGEMENT \n";
193     cout << " 3. CHARGES MANAGEMENT \n";
194     cout << " 4. EXIT ";
195     cout << " \n ";

```

```
196     cout << " Enter your choice " << endl;
197     cin >> mainchoice;
198     if( mainchoice == 1)
199     {
200         c1.getDetails();
201     }else if( mainchoice == 2)
202     {
203         b1.getroomDetails();
204     }else if(mainchoice == 3)
205     {
206         s1.Printreceipt();
207     }else
208     {
209         system("CLS");
210     }
211
212
213
214 }
215 int main()
216 {
217     Managemenu m1;
218
219 }
```