**On**

**Hotel Management**

**Subject:** Programming Fundamentals

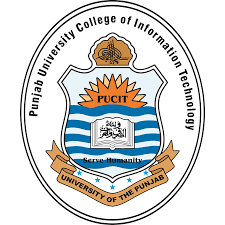
**Submitted to:**Sir Anzar Ahmad

**Submitted by:**

Muneeb Ur Rehman (bcsf17m017)

Imad Ud Din (bcsf17m008)

Faiza Binyamin (bcsf17m021)



We have made this hotel management system which three classes of available rooms.

1. Presidential class
2. Executive class
3. Deluxe class

Each class has total 50 rooms.

In main menu u have 2 options:

* **Enter as user:**
* **Enter as manager:**

**In user side:**

* U can check any room available in any class by its room no.
* U can see all the available rooms in all classes.
* U can book a room in any class

**In manager side (You have to enter through a password \* 12345\*)**

* U can see customer record in all the three classes of rooms:
* U can search a room record specifically

By name :

By address:

By id card no:

* U can specificly check record of any room in any class:
* U can delete all the data present in all classes:
* U can backup data of all the classes:
* U can restore the backup:
* U can delete the backup :

Functions:

**Function prototypes to show all records of rooms of every class:**

void showrecord(); | receives nothing | returns nothing |

void showrecordexecutive(); | receives nothing | returns nothing |

void showrecorddeluxe(); | receives nothing | returns nothing |

**The legendry show menu function:**

void showmenu(); | receives nothing | returns nothing |

**Prototypes to choose choices for classes:**

void showchoicesforcheckavailable(); | receives nothing | returns nothing |

void showchoicesfordobooking(); | receives nothing | returns nothing |

void showchoicesforallavailable(); | receives nothing | returns nothing |

void showchoicesforrecord(); | receives nothing | returns nothing |

void showchoicesfordelete(); | receives nothing | returns nothing |

void showchoicesforbackup(); | receives nothing | returns nothing |

void showchoicesforrestorebackup(); | receives nothing | returns nothing |

void showchoicesforspecific(); | receives nothing | returns nothing |

void showchoicesforspecificpinto(); | receives nothing | returns nothing |

void showchoicesforspecificeinto(); | receives nothing | returns nothing |

void showchoicesforspecificdinto(); | receives nothing | returns nothing |

**Function prototypes for data delete:**

void deletedata(); | receives nothing | returns nothing |

void deletedataexecutive(); | receives nothing | returns nothing |

void deletedatadeluxe(); | receives nothing | returns nothing |

**Function prototypes for data backup:**

void databackup(); | receives nothing | returns nothing |

void databackupexecutive(); | receives nothing | returns nothing |

void databackupdeluxe(); | receives nothing | returns nothing |

**Prototype to backup all data function:**

void databackupall(); | receives nothing | returns nothing |

**Prototype to delete all present data:**

void deleteall(); | receives nothing | returns nothing |

**Prototype to delete all backupdata:**

void deleteallbackup(); | receives nothing | returns nothing |

void restorebackupdeluxe(); | receives nothing | returns nothing |

void restorebackupexecutive(); | receives nothing | returns nothing |

void restorebackup(); | receives nothing | returns nothing |

void restoreall(); | receives nothing | returns nothing |

**prototypes to show record by room no**

void showspecificpresidential(); | receives nothing | returns nothing |

void showspecificexecutive(); | receives nothing | returns nothing |

void showspecificdeluxe(); | receives nothing | returns nothing |

**prototypes to show record by name**

void showspecificdname(); | receives nothing | returns nothing |

void showspecificename(); | receives nothing | returns nothing |

void showspecificpname(); | receives nothing | returns nothing |

**prototypes to show record by id card no**

void showspecificdidcard(); | receives nothing | returns nothing |

void showspecificeidcard(); | receives nothing | returns nothing |

void showspecificpidcard(); | receives nothing | returns nothing |

**prototypes to show record by adress**

void showspecificdadress(); | receives nothing | returns nothing |

void showspecificeadress(); | receives nothing | returns nothing |

void showspecificpadress(); | receives nothing | returns nothing |

**prototypes to check room availability:**

int roomchecker(int a); |receives room no : |

| returns 1 if room available : |

|2 if not available : |

|3 if entered room no is out of range |

int roomcheckerexecutive(int a); |receives room no : |

| returns 1 if room available : |

|2 if not available : |

|3 if entered room no is out of range |

int roomcheckerdeluxe(int a); |receives room no : |

| returns 1 if room available : |

|2 if not available : |

|3 if entered room no is out of range |

**Prototypes for doing booking:**

void dobooking(); | receives nothing | returns nothing |

void dobookingdeluxe(); | receives nothing | returns nothing |

void dobookingexecutive(); | receives nothing | returns nothing |

**prototypes for automatically creating files:**

void createfilesautomic(); |receives nothing | returns nothing |

**function prototypes to check available or not room:**

void showavailable(); | receives nothing | returns nothing |

void showavailableexecutive(); | receives nothing | returns nothing |

void showavailabledeluxe(); | receives nothing | returns nothing |

**prototypes to show all available rooms**

void allavailable(); | receives nothing | returns nothing |

void allavailableexecutive(); | receives nothing | returns nothing |

void allavailabledeluxe(); | receives nothing | returns nothing |

**prototypes to restore all backup:**

void restorebackupdeluxe(); | receives nothing | returns nothing |

void restorebackupexecutive(); | receives nothing | returns nothing |

void restorebackup(); | receives nothing | returns nothing |

void restoreall(); | receives nothing | returns nothing |

**prototype for invalid input function:**

void invalidinput(); | receives nothing | returns nothing |

**Structure to store data:**

struct customer{

char roomno[100];

char name[100];

int age;

char adress[100];

char idcard[100];

};

**Libraries included :**

#include <iostream>

#include<string>

#include<fstream>

#include<stdio.h>

#include<sstream>

#include<stdlib.h>

#include<iomanip>