

Hotel Reservation System – HRS

In this project you have to design and implement an HRS that can be used by a small hotel. Your program should provide the following services:

- 1- Reserve a room for a customer and then unreserve it when the customer leaves the hotel.
- 2- Each customer reserving a room should have a profile in the HRS containing name, id, address, marital status, the time period of reservation, type of the room. You have the choice to either delete the profile when the customer leaves or keep it in the system.
- 3- The program should give an information about the hotel rooms status i.e. how many rooms are reserved and how many are not, types of those rooms, how many customers are in the hotel,
- 4- The HRS should have like a waiting list to add customers to if the hotel is full.
- 5- The user of the program should know how much the customer paid and how much should he pay before leaving the hotel when he/she is about to leave.
- 6- Searching for a room by its number should be an available service in the program in order to check the room status (reserved or unreserved).
- 7- Also you need to find the unreserved rooms in the hotel. This service should display the unreserved room numbers and their types.
- 8- You can search for a person by name or id and then display his/her profile.
- 9- When a customer leaves the hotel, the program should display a bill for him

Hints:

- Each room of the hotel has some specifications: number, type of the room (single or double), price, reservation time, services (meals, telephone, and internet), and if the room is reserved or not.
- Each customer has some specifications: name, id, address, marital status, the number of the room he/she reserved, the date he/she reserved room and the date he/she left, the bill.

Guide lines:

- This project is to be done in groups of two
- General steps you might follow during this project:
 - begin by designing your classes
 - implement the service screens first just to output simple sentences showing that the program choices are working correctly
- The goal behind this project is to put the concepts you have learned during this course into practical use.

Course Project

Principles of Object Oriented Programming in C++

CSCI 2402

- Try to use much as possible of the concepts you learned throughout the semester.
- There will be bonus points for implementing this project with files capabilities of the C++
- You are not forced to use the hints above. The decision is left to your judgment.
- You should arrange with the T.A.s about the submission method.
- The deadline will be 20/12/2008