

COMPUTER SCIENCE PROJECT HOTSOFT

A Hotel Management Software



Made By:-

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Certificate

This is to certify that the project entitled “HotSoft – A Front-Desk Hotel Management Software” has been carried out by Faheem Hassan Zunjani of 12-B, Delhi Public School, Bhilai.

He has submitted this project during the academic year 2014-15 towards partial fulfilment for Certificate of Senior Secondary School Examination called out by CBSE.

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Introduction about C++

C++ is a general-purpose programming language. It has imperative, object-oriented and generic programming features, while also providing the facilities for low-level memory manipulation.

C++ was developed by Bjarne Stroustrup at Bell Labs, starting in 1979, who wanted an efficient flexible language (like the C language), which also provided high-level features for program organization.

It is multi-paradigmed and supports object oriented, generic, functional and procedural paradigm.

The latest major revision of the C++ standard, C++11 (formerly known as C++0x), was approved and released on the 12 August 2011.

System Requirements

The system requirements for Borland Turbo C++ are listed below.

Development

- Intel Pentium III/M 1.4 GHz, or Pentium IV 1.4 GHz minimum(Intel Pentium III/M 1.4 GHz+, or Pentium IV 2GHz+ recommended)
- Microsoft Windows XP or later
 - 512 MB RAM (1 GB+ recommended)
- 900 MB free hard disk space
 - 750 MB free hard disk space for prerequisites (including Microsoft .NET Framework and SDK)
- CD-ROM or DVD-ROM drive
- SVGA or higher-resolution monitor (XGA recommended)
- Mouse or other pointing device

Deployment (minimum)

- Intel Pentium II/300 MHz or better
- Microsoft Windows XP or later
- 128 MB RAM or better
- CD-ROM or DVD-ROM drive
- SVGA or higher-resolution monitor (XGA recommended)

Preface

HotSoft is a front-desk hotel management software designed typically for billing and database management of guests checking in and out of the hotel. It also includes options to display the features of the hotel and the amenities and services offered by it.

For this project HotSoft has been customized for The Grand Budapest Hotel, Alpine Mountainside, Republic of Zubrowka. The feature of adding restaurant's bill in the guest's data and adding it to the final bill on check out has also been provided.

HotSoft can be customized for any hotel that desires a neat and quick interface for the database management of the hotel. It can also be customized to display the features of the hotel for the guests with an interactive interface.

Input Requirements

Input Requirements:

For Room Availability:

1. Room Type

For Check In:

1. Name of the guest
2. Type of room

For Guest Search:

1. Name of guest

For Restaurant Billing:

1. RoomID
2. Codes of dishes ordered

For Check Out:

1. RoomID
2. Number of days stayed

Description Of Files Used

Files Used:

1. **guests.dat** : This file is the hotel's guest database. It stores the details of the guest on checking in in a *structure* format. The data members of the structure are Name of the guest, RoomID and Bill. Each record is added on checking in and deleted from the file on checking out.

2. **restbill.dat** : This file is the restaurant's database. It stores the RoomID of the guest and the restaurant bill. This bill amount is updated every time the guest visits the restaurant and is added to the final bill on checkout. Each record is added on the first visit to the restaurant and is deleted from the file on checking out.

Room Tariff

The Grand Budapest Hotel

Room Tariff

| | |
|--------------------|----------|
| 1. Ruby Deluxe | Rs 5000 |
| 2. Sapphire Deluxe | Rs 7500 |
| 3. Platinum Suite | Rs 10000 |
| 4. Diamond Mansion | Rs 15000 |

Outputs

1. **Check room availability:** This option displays the available rooms for the given room type.
2. **Display Tariff:** This option displays the Room Tariff (per day) for different room types.
3. **Display Amenities:** This option displays the amenities and services offered by the hotel.
4. **Check In:** This options asks for the details of the new guest and adds it to the database and displays a welcome message.
5. **Guest Search:** This option asks for the name of the guest to be searched in the hotel database and then displays the room in which he/she is staying and then displays the instruction for dialing to that room's phone.
6. **Restaurant Billing:** This options displays the Fine Dining Restaurant's Menu with dishes' codes and adds the restaurant bill to the guest's record as per the dishes ordered and also displays the final amount.
7. **Check Out:** This option asks for the guest's details, generates and displays the final bill for payment accordingly.

Screenshots

1. Main Menu



1. Option 1
2. Checking for availability of rooms

```
The Grand Budapest Hotel
Room Availability

Room types:
R. Ruby Deluxe
S. Sapphire Deluxe
P. Platinum Suite
D. Diamond Mansion

Which type of room do you want? (R/S/P/D): P

Available Rooms: P302 P303 P304 P305 P306 P307 P308 P309 P310

Press any key to go back to menu.._
```

1. Option 2
2. Displays amenities offered by hotel

The Grand Budapest Hotel

Amenities

1. WiFi Enabled Rooms
2. Complimentary Breakfast
3. Conference & Banquet Halls
4. Fine Dining Restaurant
5. Mansions With Butlers
6. Thai Spa
7. Swimming pool
8. Recreational Games
9. Gymnasium
10. Laundry

Press any key to go back to menu..

1. Option 3
2. Displays Room Tariff

Room Tariff(per day) 24hrs checkout

| | |
|--------------------|----------|
| 1. Ruby Deluxe | Rs 5000 |
| 2. Sapphire Deluxe | Rs 7500 |
| 3. Platinum Suite | Rs 10000 |
| 4. Diamond Mansion | Rs 15000 |

Press any key to go back to menu..

1. Option 4
2. Check In of new guest

```
The Grand Budapest Hotel

Check in

Enter Guest's Name: Faheem Hassan Zunjani

Room Type:
1. Ruby(Rxxx)
2. Sapphire(Sxxx)
3. Platinum(Pxxx)
4. Diamond(Dxxx)

Enter Room No:R101

Welcome to The Grand Budapest Hotel, Faheem Hassan Zunjani !
Have a luxurious stay with us!

Press any key to go back to menu.._
```


1. Option 5
2. Searching for guest staying in the hotel

```
The Grand Budapest Hotel
      Guest Search
Enter Guest's Name:Faheem Hassan Zunjani
Faheem Hassan Zunjani is staying in room R101 .
To call Faheem Hassan Zunjani, dial 5 followed by 101 !
Press any key to go back to menu..
```

1. Option 6
2. Fine Dining Restaurant billing

```
The Grand Budapest Hotel

Fine Dining Menu

1. Butter Chicken          2. Fish Curry
3. Prawns Curry            4. Mutton Rogan Josh
5. Paneer Butter Ms.      6. Paneer Tikka
7. Prawns Curry            8. Veg. Kofta
9. Veg. Jalfrezi           10. Malai Kofta
11. Veg. Manchurian        12. Dal Makhni
13. Veg. Schezwan          14. Veg. Fried Rice
15. Tomato Soup            16. Hot And Sour Soup
17. Chicken Biryani        18. Paneer Chilli
19. Tandoori Roti          20. Stuffed Naan

Enter Guest's RoomId:R101
Enter dish's code: 7
Do you want to enter more? (Y/N):N
Amount: 430
Press any key to go back to menu.._
```

1. Option 7
2. Check out of guest leaving the hotel

```
The Grand Budapest Hotel
Check out
Enter Guest's RoomId: R101
Hello Faheem Hassan Zunjani!
Do you want to check out? (Y/N): Y
Enter No. of days stayed: 3
```

1. Receipt

The Grand Budapest Hotel

Receipt

| | |
|---------------------|-----------------------|
| Name: | Faheem Hassan Zunjani |
| RoomId: | R101 |
| No of days stayed: | 3 |
| Room charges: | 15000 |
| Restaurant charges: | 6390 |
| Total: | 21390 |
| VAT@15%: | 3208 |
| Amount: | 24598 |

Please pay Rs. 24598

Thank You for staying with us!
We hope to serve you again!
Have a nice day!

Manager: FHZ

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Future Improvisations

Due to time constraint many features could not be incorporated in this software. Some of them are listed below.

1. Back-end Accounting- An option can be added that can be used by the hotel management to monitor their daily check-ins, check-outs and transactions.
2. Financial Accounting: An option can be added that will help the hotel management to analyze their monthly revenue and profits, salary paid to employees, etc.
3. Restaurant Bill Generation: An option can be added that generates the bill for non-residential customers.