



Project Report On

Hotel Management System

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Hotel Management System



About Our Project :

1. Programming Language : C++
2. IDE Tool : Codeblocks
3. Project Topic : Hotel Management System
4. Project Platform : MS Powerpoint

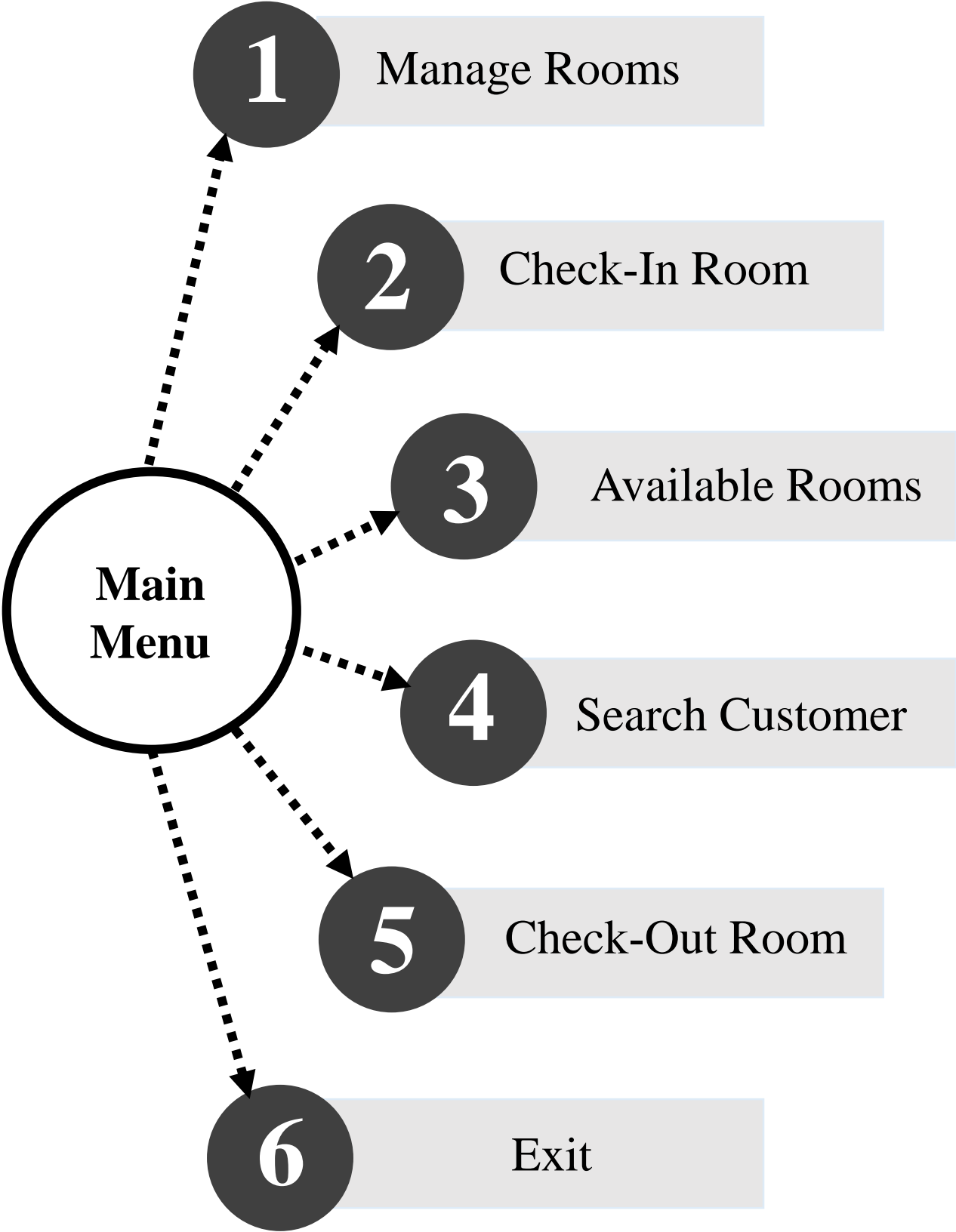
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Methodology :

1. Data members
2. Class
3. Function
4. Constructor
5. Switch case
- 6

Project Diagram :



1. Introduction :

The Hotel Management System, referred to as HMS, is an application that will help users better utilize rooms used by employees and other guests. HMS helps users manage guest flows by affording them the ability to easily check guests in, check them out, and generate stay reports, among other things.

2. Project Overview :

This project is all about creating a simple and effective software to help hotels run smoothly and make guests happy.

With our system, hotel staff can easily handle bookings, check-ins, check-outs, room service requests, and billing. It's designed to be easy to use, so hotel employees can quickly learn how to use it and start working more efficiently.

3. Why Choose our System :

It makes running a hotel easier and more efficient. Here are some reasons why people choose our System :

- 1. User-Friendly** : It's easy to learn and use, so hotel staff can start working with it quickly.
- 2. Time-Saving** : It automates many tasks like bookings and billing, saving time for the staff.
- 3. Better Service** : It helps staff provide faster and better service to guests.
- 4. Organization** : It keeps all hotel information organized in one place.
- 5. Cost-Effective** : It reduces the need for extra paperwork and manual work, saving money.

4. Features :

Our Hotel Management System comes with a range of features designed to streamline hotel operations and enhance guest experiences. Here are some key features:

- 1. Reservation Management** : Easily handle bookings, cancellations, and modifications with an intuitive interface.
- 2. Check-In and Check-Out** : Simplify the check-in and check-out process, reducing wait times for guests.
- 3. Room Management** : Keep track of room availability, cleaning schedules, and maintenance needs.
- 4. Billing and Payments** : Automatically generate invoices, process payments, and manage billing records efficiently.
- 5. Guest Profiles** : Store guest information, preferences, and history to provide personalized services.
- 6. Security and Privacy** : Ensure guest data is protected with robust security measures and privacy controls.
- 7. Customer Feedback** : Collect and manage guest feedback to continuously improve services.

5. System Architecture :

The project code is organized into distinct classes : Customer, Room, HotelMgnt. Each class plays a specific role in ensuring the system functions smoothly and efficiently.

6. User Interface :

When the program starts, the user is greeted with a welcome message and prompted to log in as an admin:

```
WELCOME TO SUNBURST PARADISE

Please Login :
```

The admin is prompted to enter a password to log in. If the password is incorrect, the user is prompted again:

```
Enter Password :
```

If the password is correct, a success message is displayed:

```
You have successfully logged in
```

After a successful login, the user is presented with a main menu to select various options. Each option is accessed by entering the corresponding number:

```
Select one

1. Manage Rooms
2. Check-In Room
3. Available Rooms
4. Search Customer
5. Check-Out Room
6. Exit

Enter Option:
```

If the user selects "Manage Rooms," they are presented with another menu to add a room, search for a room, or return to the main menu:

```
### Manage Rooms ###
```

1. Add Room
2. Search Room
3. Back to Main Menu

```
Enter Option:
```

When adding a room, the user is prompted to enter various details about the room:

```
Enter Room Number:
```

```
Type AC/Non-AC (A/N) :
```

```
Type Comfort (S/N) :
```

```
Type Size (B/S) :
```

```
Daily Rent :
```

After entering the details, a confirmation message is displayed:

```
Room Added Successfully!
```


When searching for a room, the user is prompted to enter the room number. If the room is found, its details are displayed along with its availability status:

```
Enter room number:  
Room Details  
  
Room is Reserved (or Room is available)  
Room Number:  
Type AC/Non-AC (A/N)  
Type Comfort (S/N)  
Type Size (B/S)  
Rent:
```

If the user selects "Check-In Room," they are prompted to enter the room number and then the customer details:

```
Enter Room number:  
Room is already Booked (if the room is booked)  
  
Enter booking id:  
Enter Customer Name (First Name):  
Enter Address (only city):  
Enter Phone:  
Enter From Date:  
Enter to Date:  
Enter Advance Payment:  
  
Customer Checked-in Successfully..
```

If the user selects "Available Rooms," all available rooms are displayed:

```
Room Number:
Type AC/Non-AC (A/N)
Type Comfort (S/N)
Type Size (B/S)
Rent:

Press enter for next room
```

If the user selects "Search Customer," they are prompted to enter the customer's name. If the customer is found, their details are displayed:

```
Enter Customer Name:
Customer Name:
Room Number:

Press enter for next record
```

If the user selects "Check-Out Room," they are prompted to enter the room number and the number of days stayed. The system then calculates and displays the bill:

```
Enter Room Number:
Enter Number of Days:
##### CheckOut Details #####
Customer Name:
Room Number:
Address:
Phone:
Total Amount Due:
Advance Paid:
*** Total Payable: amount only

Room is not available (if no rooms are available)
```

If the user selects "Exit," a thank you message is displayed, and the program ends:

```
THANK YOU! FOR USING SOFTWARE
```

7. Aim :

The project “Hotel Management System” is aimed to develop to maintain the day-to-day state of admission/Vacation of Residents, List of Workers , payment details etc. Main objective of this project is to provide solution for hotel to manage most there work using computerized process.

8. Conclusion :

In conclusion, this hotel management system provides a simple and interactive way to manage hotel rooms and guests. Through a text-based interface, users can add rooms, check in and check out customers, search for guests, and view available rooms. The system ensures that all operations are easy to follow and efficient, making it a useful tool for hotel administration.

Code

