Abstract

In my project "**Hotel Management System**" I have tried to show how the data/information in hotels is managed. This is just an overview of management in hotels. It manages and maintains the records of customers and rooms in the hotel. The project is aimed to maintain the day-to-day state of admission/vacation of Residents, room details etc. Main objective of this project is to provide solution for hotel to manage most there work using computerized process. This software application will help admin to handle customer information, room allocation details, Payment details etc.

The rooms have different categories like single bed, double bed etc. so their charges and records will be maintained accordingly.

This software has been made in a user friendly interface, so that anyone can add, delete, update the entries and handle all the transactions easily. As a security I have provided Admin username and Password.

Introduction

The project, Hotel Management System is a desktop-based application that allows the hotel manager to handle all hotel activities online. Interactive GUI and the ability to manage various rooms and customers make this system very flexible and convenient. The hotel manager is a very busy person and does not have the time to sit and manage the entire activities manually on paper. This application gives him the power and flexibility to manage the entire system from a single online system. Hotel management project provides room booking, staff management and other necessary hotel management features. The system allows the manager to post available rooms in the system.

The Purpose of the whole process is to ease the daily or regular activities of the Hotel Management into an automatic computerized retrievable process. The daily activities includes the Room activities, Entering details of the new customer check in, To allocate a room as per the customer need and interest, Recording the checkout time and details, Releasing or Empty of room and to record the process in a computer system for future.

The application of the Hotel Management System bears the following functions to use by the Administrator:

- Add a new Room
- Add a new Customer
- Check room status
- Check all Customers' details
- Update room status
- Update check status etc.

Administrative Modules

Admin : Admin can add a new room and add a new customer and allocate rooms, can check all room details, customers details, search for a particular room etc.

Main Objective

Main objective of this project is to provide solution for hotel to manage most there work using computerized process. This software application will help admin to handle customer information, room allocation details, Payment details etc.

- Keeping records of admission of customers.
- Facilities provided by Hotel are fully utilized in effective and efficient manner.

Existing System:

In the existing manual system a lot of time is spent in communicating the information across different branches. There is a need for an automated system, which has some centralized control over the entire process. Conventional System makes use of huge amounts of paper for recording transactions. All the Hotel records are to be maintained for the details of each customer, Fee details, Room Allocation etc.

Disadvantages:

- Time consuming
- Inaccuracy of data

Proposed System:

Proposed system is the computerized version of the existing system which provides easy and quick access over the data. Keeping the records of admission of Resident properly so that facilities provided by Hotels are fully utilized in effective and efficient manner.

Advantages:

- Less Time consuming
- Maintain accuracy

Requirements

User Interface:

The User interface required to be developed for the system should be user friendly and attractive.

There are two sets of java APIs for graphics programming:

AWT (Abstract Windowing Toolkit) and Swing.

➢ AWT API was introduced in JDK 1.0. Most of the AWT components have become obsolete and should be replaced by newer Swing components.

➢ Swing API, a much more comprehensive set of graphics libraries that enhances the AWT, was introduced as part of Java Foundation Classes (JFC) after the release of JDK 1.1. JFC consists of Swing, Java2D, Accessibility, Internationalization, and Pluggable Look-and-Feel Support APIs. JFC was an add-on to JDK 1.1 but has been integrated into core Java since JDK 1.2.

Software Interfaces

Programming Language   Java

Back End Tool   MySql

Database Tables

1. Customer

Field	Datatype	Constraint
customerId	Int(11)	PK
name	Varchar(20)	NN
gender	Varchar(10)	NN
mobile	Varchar(15)	NN
address	Varchar(60)	NN
Room number	Int(11)	NN
Room Type	Varchar(10)	NN
bed	Varchar(10)	NN
email	Varchar(30)	NN
idType	Varchar(20)	NN
idNumber	Varchar(20)	NN
joinDate	Varchar(11)	NN
CheckOutDate	Varchar(11)	NN
price	Double	NN
NumberofDays	Int(11)	NN
discount	Double	NN
paymentMode	Varchar(10)	NN
advancePayment	Double	NN
totalAmount	Double	NN
status	Varchar(10)	NN

2. Room

Field	Datatype	Constraint
Room_number	Iny(11)	NN

Room Type	Varchar(10)	NN
status	Varchar(10)	NN
Price	Double	NN
Bed	Varchar(10)	NN

3.Login

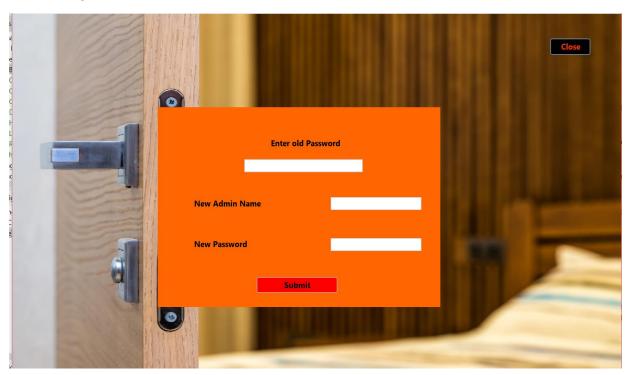| Field	DataType	Constraint
admin	Varchar(20)	NN
adminPassword	Varchar(50)	NN

Screenshots
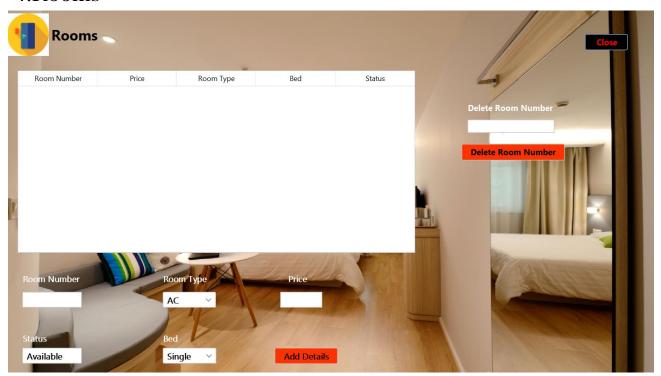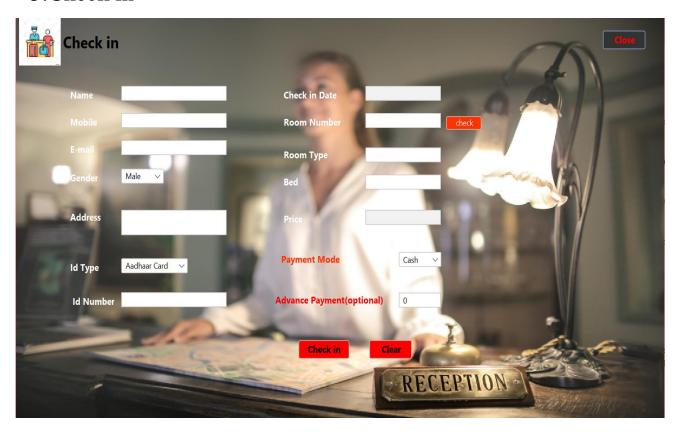
1. Home Page

2.Login Page

3.Change Admin and Admin Password
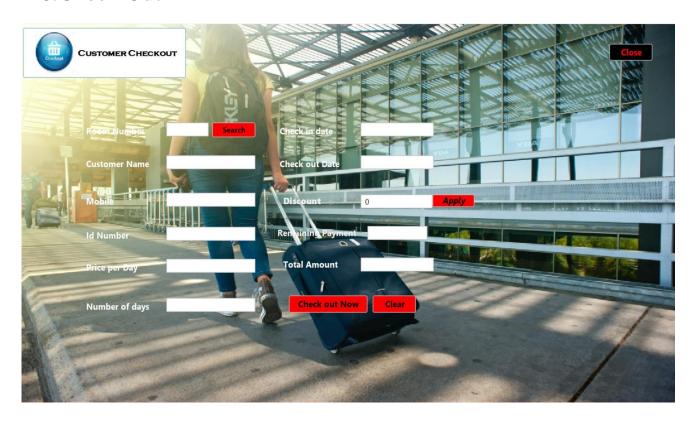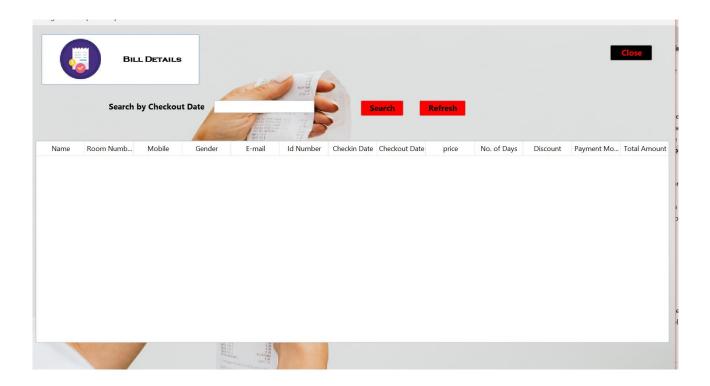

4.Rooms

5.Check in

6.Check Out

7.Bill Details

<u>Conclusion</u>

In this project I have tried my best to make user friendly software. This software can be handled by any person who has little bit of idea of computers. In this software I have tried to meet most of the requirements of the present hotel management system including maintaining details of customers and rooms. I also keep provision to update the details of customers and rooms. In my effort I have tried to make my software all the more user friendly but there may some features which I would like to include in my continuous attempts.