

A Project/Dissertation ETE Report on
Hotel Management System

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Program Name with Specialization

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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. We are making this Project to get new technique to manage the customer and the employees in the hotel. We are making this desktop application accordingly to need and people helps to stay in hotel more comfortable way. It manages and maintains the records of customers, rooms, employees and drivers in the hotel. The project is aimed to maintain the day-to-day state of admission/vacation of Residents, List of employees, 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. We are using the java language as the main purpose of coding and in the backend MySql database.

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Acronyms

B.Tech.	Bachelor of Technology
M.Tech.	Master of Technology
BCA	Bachelor of Computer Applications
MCA	Master of Computer Applications
B.Sc. (CS)	Bachelor of Science in Computer Science
M.Sc. (CS)	Master of Science in Computer Science
SCSE	School of Computing Science and Engineering

Student Data

SN	Student Name	Admission No.	Semester	Branch
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Faculty Data

SN	Faculty Name	Designation	Role
1	Mr. Amit Kumar	Assistant Professor	Guide

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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, employees, drivers 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 an Employee
- Add a new Customer
- Check room status
 - Check all employees' details
 - Check all Customers' details
- Update room status
- Update check status etc.

Administrative Modules

There are 2 modules I have included in this project :

1. Admin : Admin can add a new room , a new employee and a new driver.
2. Receptionist : Receptionist can add a new customer and allocate rooms, can check all room details, customers details, employee 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 5.5 command line client

Database Tables

1. Customer

Field	Datatype	Constraint
id	Varchar(30)	NN
number	Numeric(30)	PK
name	Varchar(30)	NN
gender	Varchar(30)	NN
country	Varchar(30)	NN
Room number	Numeric(30)	NN
Status	Varchar(30)	NN
Deposit	Numeric(30)	NN

2. Room

Field	Datatype	Constraint
Room_number	Numeric(30)	PK
_availability	Varchar(30)	NN
Clean status	Varchar(30)	NN
Price	Number(30)	NN
BedType	Varchar(30)	NN

3. Employee

Field	Data Type	Constraint
Name	Varchar(30)	NN
Age	Numeric(30)	NN
Gender	Varchar(30)	NN
Job	Varchar(30)	NN
Salary	Number(30)	NN
Phone	Number(30)	NN
Adhar	Number(30)	PK
Email	Varchar(30)	NN

4.Driver

Field	DataType	Constraint
Name	Varchar(30)	NN
Age	Numeric(30)	NN
Gender	Varchar(30)	NN
Company	Varchar(30)	NN
Brand	Varchar(30)	NN
Available	Varchar(30)	NN
Location	Varchar(30)	NN

5.Login

Field	DataType	Constraint
Username	Varchar(30)	PK
Password	Varchar(30)	NN

6.Department

Field	DataType	Constraint
Department	Varchar(30)	PK
Budget	Numeric(30)	NN

Conclusion

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, rooms, employees and drivers. I also keep provision to update the details of customers, rooms and employees. 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.

Reference

- **<https://www.geeksforgeeks.org/java/>**
- **<https://www.geeksforgeeks.org/tag/java-swing/>**
- **<https://youtu.be/Tch-Cpttc0e>**
- **<https://youtu.be/VHbSopMyc4M>**