MINI PROJECT – I

(2020-21)

Institute of Engineering & Technology

Hotel Management System

SYNOPSIS

By

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Contents

Name/Title of the project:

    Hotel Management System.

Problem Statement:

The computer has brought revolution in every sphere of human life, whether it is business, education field, governance, medical science etc. The computer has reduced the human work load, businesses are going global and everything is available at the click of mouse. Most of the persons working in a hotel have to handle the things manually such as storing customer details, employee details and so on, which is a very time-consuming task and seems hard too. The data stored manually in registers or copies can be lost very easily so to maintain all this, a Hotel Management system is required.

Reason for selecting the topic:

Because of the numerous advantages and benefits. Now-a-days, more and more people prefer that every small to small task should be done online, if possible, rather than manually. The mindset of the people is approaching towards technology and every person wants that his/her data should be kept safe and secured. The benefits are as follows:

1. If in a hotel, the no of rooms are in a huge number and a customer comes for booking, then the receptionist can be confused about the room so a search room module can be made which tells about the availability of room.
2. Sometimes the manager asks for details of the employees but if the data is stored manually, it can be lost easily. So we can create the database for storing the data.
3. If suppose customer wants to go to some place from the hotel so pick up service module can be used to see if any driver is available and his location. This can't be remembered manually.

Objectives of the project:

The objectives of the project are as follows →

1. To develop a system for the management of hotels so that hotel owners can use this facility to provide accurate information to the customers.
2. To develop a system that has a good management of data along with integrity and minimizing redundancy.
3. To develop a system that will be user friendly in all possible ways.

Literature Survey/Feasibility Study:

1. The project can be developed in the technology used (JAVA) and data can be stored safely in the database created using MySQL.
2. The project been made is very much cost effective. Just we need a good computer system in working condition.

Future Scope

This project can be used in the hotel after adding some more useful modules in the project for which hotel are providing services.

Utmost care and back-up procedures must be established to ensure 100% successful implementation of the computerized hotel system. In case of system failure, the organization should be in a position to process the transaction with another organization or if the worst comes to the worst, it should be in a position to complete it manually.

Methodology:

I am using core JAVA programming language to implement this project. The concept used is Swing which is used to show the framework. The resultant will be the desktop application. I am using MySql to create the database and use it for further purposes. JDBC is a concept used to connect MySQL with JAVA.

The modules used in this app are listed as follows:

- Admin
- Reception

  The sub-modules in the Admin module are:

  - Add Employee
  - Add room
  - Add drivers

  The sub-modules in the Reception module are:

  - Employees Info
  - Manager Info
  - Room
  - Customer Info
  - New customer
  - Search room
  - Pickup Service

Hardware and Software to be used:

1. *Hardware:*
   - Minimum 8GB Ram
   - Disk Space 80GB
2. *Software*:
   - Netbeans IDE
   - MySql Database

Testing technologies to be used:

- Core Java (Java Swing).
- MySQL
- JDBC (Java database connectivity).

What contribution would the project make and where?

This project can be used in hotels and in this similar way, we can think of making different types of management system. The main purpose of making this system is to reduce manual work of hotel employees to maintain the data in some copies. The data will be stored in database and be safe and secured. If we integrate this system with various other modules, then this system can be used in various other ways.

Scope for extension into a major project:

Things that can be added to extend this project into a major one:

1. Online payment system.

2. This desktop application can be made into a website for a particular hotel which can be used for many purposes.

Conclusion:

Hotel Management System will help the owner or manager of the hotel to maintain the information of employees and customers and give accurate service to the customers.