Hotel Management System

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Abstract:
Hotel Management Information System keeps record of hotel guests and has facilities for booking, making registrations and generating of bills and entering room hotel rates etc. Manual systems has limitations, like space to store data and low working speed. Tasks like updating and deleting of the records, make registers paper consuming, untidy. Searching of person’s data in the manual register is very slow and . Therefore, Hotel Management Information System (HMIS) has been developed to overcome the limitations of manual system. HMIS software using hyper text markup language as front end tool and Oracle database as backend. The developed software (HMIS) is influential in computerizing the work related to hotel. The HMIS software provides information about the services provided, including room, employee, customer and charges details. Security has been implemented for accessing the software by authentication. Only authorized person can access the software, which increases the security.

I. INTRODUCTION

Hotel Management data system keeps record of hotel guests, booking, making registrations and posting of bills and entering room hotel rates etc. a corporation achieves their goals by sharing and using their available resources within the best way. Organization like hotel organizes their activity in consistent ways in which helps the clients to carry their expectations from the organization. Expectations from the organization means information about the organization that’s being provided by the organization. Information is crucial at every stage that needs organization and management to stay within the user friendly way. Computers are best suitable electronic devices that perform many functions just like the human brain and known to be as mechanical brains. Offices are “Electronic Wonderland” in 21st century where tedious paper based routine work is replaced by result oriented advanced information technology.

Keeping records manually required skilled person to speak information to manage the hotel. Manual system has limitations like storage and slow working speed. Tasks like inserting ,deleting and searching of the records make the file or registers paper consuming .Therefore, Hotel Management data system (HMIS) has been developed to beat from limitations of manual system. The developed software (HMIS) is influential in computerizing the work related to hotel. HMIS supports the management and operation for the front and back office of a hotel or hotel chain. HMIS software have six modules like customer, resources, employee, report and sales. within the customer module, there are provisions for keeping information about customer sign up, checkout, advance booking, bill generation and restaurant bill generation. Resource module contains information for room and restaurant. Current room status, customer detail and booking analysis information are recorded within the report module and sale module keeps information about monthly and yearly sale of the hotel which will easily help in a licensed person can easily view, edit, and update the small print by logging in through pre-registered user Id and password.

II. STATEMENT OF PROBLEM

Problems that are affecting the current manual system of hotel which directly affect the routine of work need to be solve as in this growing world where accuracy, perfection, speed and high memory data storage is must. Every problem must be short out fast. The problem faced by the existing manual system can be solved by hotel management system are give below :-

• Difficulty in maintaining the record: it is difficult to maintain a data as all the record are recorded in a manual register book which can be lost or miss placed or may be torn

• Time consuming: it is very difficult to write all the entries again and again as it is time consuming also take lot of time to make another copy of record for safety.it also take time to check data quickly

• No security of data: as record are recorded manually any one can edit or change the data without knowledge of any worker which can led to high security issues.

• Data Redundancy: repetition of data can be done as large amount numbers of records are handled manually

• Mistake in calculation of fund: calculating funds manually can cause huge blunder which may make loss to company

III. METHODOLOGY

This system is created as an interactive web-based application using HTML all code are written rather than drag and drop The system will have control over all transaction MY-SQL are used as the backend where customer record and transaction are stored. It serve as data base Links are used to manage photo and dialog box and text box The project work will ensure reservation of hotel rooms, cancellation, and its availability all details of room are available in data server with little stress it can be
updated by the admin as it have power to access these data. To accomplish all these task for both the customer side and the hotel side an efficient and integrate hotel management system is built

IV. DESIGN

As per the requirement of hotel working, a prototype model was designed for the information like facilities and services, room details, employee details, customer details and charges details. Software security is one of the important issues which is essential to control unauthorized access of the software. Access control is one of the of software security, which can be implemented in the software with the provision of password protection. In the designed protocol, the password is provided to user for authentication, so that only authorized person can access the system that enables system security. There were five sections designed as per the requirement. Customer, Resources, Employee, Report, Sales etc. The customer section holds information about checking, checkout, advance booking, hotel bill generation, restaurant bill generation etc. of customers. Resources section keeps information about room and restaurant. Employee section collect information about employee record and salary. Report section deals with current status of room in the hotel. Also, this section handles customer data and booking analysis. Sale section contains information monthly and year sale. This section is useful in calculating profit and loss of the hotel as well as to know about the trend of hotel management progress. In all designed sections, the provision of moving to the first, previous, next, last and addition of new details as well as saving records were implemented.

IV. RESULTS AND DISCUSSION

Software testing of the developed software shows that it can keep record of hotel and customer information for the efficient management of hotel. Software security refers to defense of computer and software against unauthorized use of resources. It has been noticed that any software designed with highest level of security system but somewhere it has been found to be limited with security system hole from where malicious attack could be done to access data or information. Therefore, password protected security system was designed at the very stage of the software. The authorized person only can access the software and can do the desired work. Categorized sections of HMIS has menu driven many facilities that can be easily operated by the operator. Menu driven system offers user to select options by pressing a particular key on the key board from list of options. In the resources part, there were two subsections like room information and restaurant. The restaurant subsection contains various item categories like Continental, Chinese, North Indian etc. The item information of the restaurant contains information about item code, item name, item price etc. The item information was stored in the database by authorized person as name, employee number, total number of days, month, basic salary, bonus and total salary. If supervisor wants to change or update the salary profile of employee, that can be done by authenticated person. In the software, there is provision to include customer information that can be done by admin. All the customer information are conceptualized as serial number, name and address, person, Telephone no., come from, next destination, nationality, purpose, checkin date, time, advance and receipt number and checkout date. While checkout of hotel room, information such as name, room number, serial number, checkin date, checkin time, checkout date, checkout time, advance deposited amount and left balance are stored in order to avoid mesh.

V. ADVANTAGES, LIMITATIONS AND FUTURE PROSPECT

Developed HMIS package provides higher services. It minimizes clerical errors and makes operating economical, quick and effective. It provides customers details simply and error free, yet as less range of exhausting copies square measure needed. Although, effort has been created to form this package easy, it's some limitations. one amongst the restrictions is that it runs solely on the stand alone digital computer and additionally the text outputs can not be obtained. This package may be updated technically so outputs may be taken within the type of text. The running platform for this package may be updated from stand alone to on-line.

VI. CONCLUSION

In conclusion we believe this project if properly utilized will save time, reduce the amount of work the administration has to do, and will replace the stationery material with electronic machinery. The system should also serve as an important kit to improving the efficiency in Hotel management. Hence a project with expected results has been developed.

VII. REFERENCES


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