

# Hotel Automation System

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## ABSTRACT

- In order to make the hotel management work systematic, standardization and automation, achieve the aim of improving the efficiency of hotel guest room management. This paper designs the hotel management system, the overall mission of system development is to make the office staff can quickly and easily complete the hotel guest room management task. From the Angle of actual application to system illustrate the basic situation; And then introduced the system analysis and modeling, focusing on the functional requirements of the hotel management system was analyzed, at the same time on the system design goal, the system use case diagram and so on several aspects, Hotel management system is mainly introduced the three layers of frame structure, and the database design, etc. Application of this system can be flexibly and conveniently on the computer management hotel rooms, thus greatly improves the processing speed, make the management more modern

**Keyword:** - Restaurant Management, Recommendation, Tablet, Menu, Intelligent, Android application.

## INTRODUCTION

Hotel industry is facing the increasingly fierce competitive environment, on the one hand, the traditional hotel industry is difficult to get rid of low prices, low occupancy rate and low profit "three low" strange circle; Study hotel management in the information service, room information query, booking and management functions, for business processes effective integration of hotel management, complete information sharing in the process of management, to provide customers with convenient and efficient hotel service. Through this system can be in the hotel customers, service personnel, managers and owners to bridge the interconnection, the full application of information management technology, combined with the actual business, improving hotel service quality, standardized service standards.

## NEED OF THE STUDY

Today, even the smallest run hotels have a hotel management system in place to meet each task of managing their hotel. In order to complete on a large scale. A hotel need an efficient system to be effective. Management system, once exclusive to large scale chains, have been adapted to accommodate the needs of smaller hotels. Nut with so many options available, you need to consider these three basic aspects when deciding to implement or change systems.

1. Simplicity: the system with all the bells and whistles available might seem like the number one choice. However, remember the system should be simple enough to understand that anyone can use it efficiently. The design should be attractive and user friendly. your staff should be able to understand how to use the program smoothly.
2. Flexibility: not every hotel is a like there are different room types, cleaning services guest types, etc. The system must be able to adapt to the characteristics and peculiarities of each hotel.
3. Accessibility: small and independent business owners might need to access hotel information at any time. Whether the your in office or on the road, you should able to access all activity within your hotel.

## OBJECTIVE OF STUDY

The aim of the proposed system is to provide solutions to the problems stated above and help the user to manage the hotel effectively and efficiently through:

**Adequate Record Keeping :** To eliminate manual record keeping and install an electronic record keeping thereby ensuring adequate record of transactions are kept. This ensures a centralized system where all necessary data and information can easily be accessed, Tracked, and monitored

**Reduced Incidence of Fraud :** The program is envisaged to reduce the incidence of fraud both by staff and outsiders through proper record keeping, tracking and monitoring of transaction operations in the organization.

**Maximum Accountability:** To Instill accountability in the process of management in the hotel organization by not only reducing incidence of fraud, but also eliminate wastages.

**Provide Data Security:** The study will install security measures by providing different access levels to various staff.

**Effective Resource Management:** The Human Resource module (HR) and Finance & Account (F&A) module will enable effective utilization of financial and human resources by comparing the accounts receivable with the account payable and complete record of personnel through the nominal roll module will enhance staff deployment and productivity.

**Increased Profit Line for The Organization:** when there is reduced incidence of fraud this and proper management of resources this will enable increased profit line for the organization

**Reduced Time Consumption:** A good search algorithm will be implemented on the web application to enhance the search facility whereby users of the system can search for all kinds of data using various criteria.

- The system can be handy to the user in the following ways:
- To automatize the work such as gathering information, gathering Hotel Staff information, Workers' roster, food ordering and Hotel administration in general.
- To atomize different types of reports
- Removal of Data Redundancy.
- To create a centralized system where all necessary data and information can be accessed easily.

## RESEARCH METHODOLOGY

This section involves Area of study, the data quality controls provided for the study. It also illustrates how the data was analyzed and presented. The visual aspect refers to the method to be used to create the graphical user interface with Visual basic application. Rather than writing numerous lines of code describe the appearance and location of interface elements, you simply drag and drop pre-built objects into a place on screen. Visual Basic revolves around ready-made objects and it is event-driven that is all the activities in a program are triggered by one event or another. Each object has its own properties, determining its size, colour, appearance and nature of its text and much more. Each object also has its own event-Handling procedures. Visual basic also handles images, menus, dialog boxes, drive and directory list and much more. The application will be web-based using the ASP.NET platform to eliminate system compatibility issues, and ensure it run on all systems provided with webBrowsers.

MS-SQL is used as the backend where Customer Record and Transactions are stored. It serves as the Database.

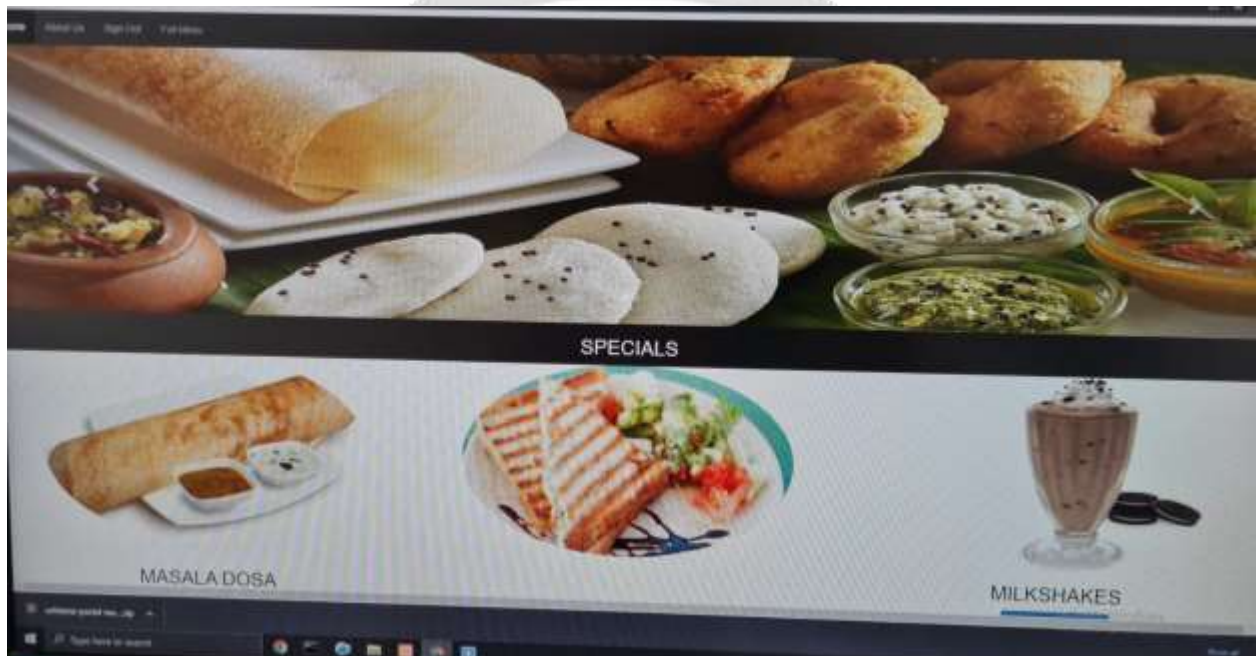
To do this, a proper search algorithm must be incorporated; the method involves using specific search criterion to select information from sources. The overall methods which are used while gathering information are:

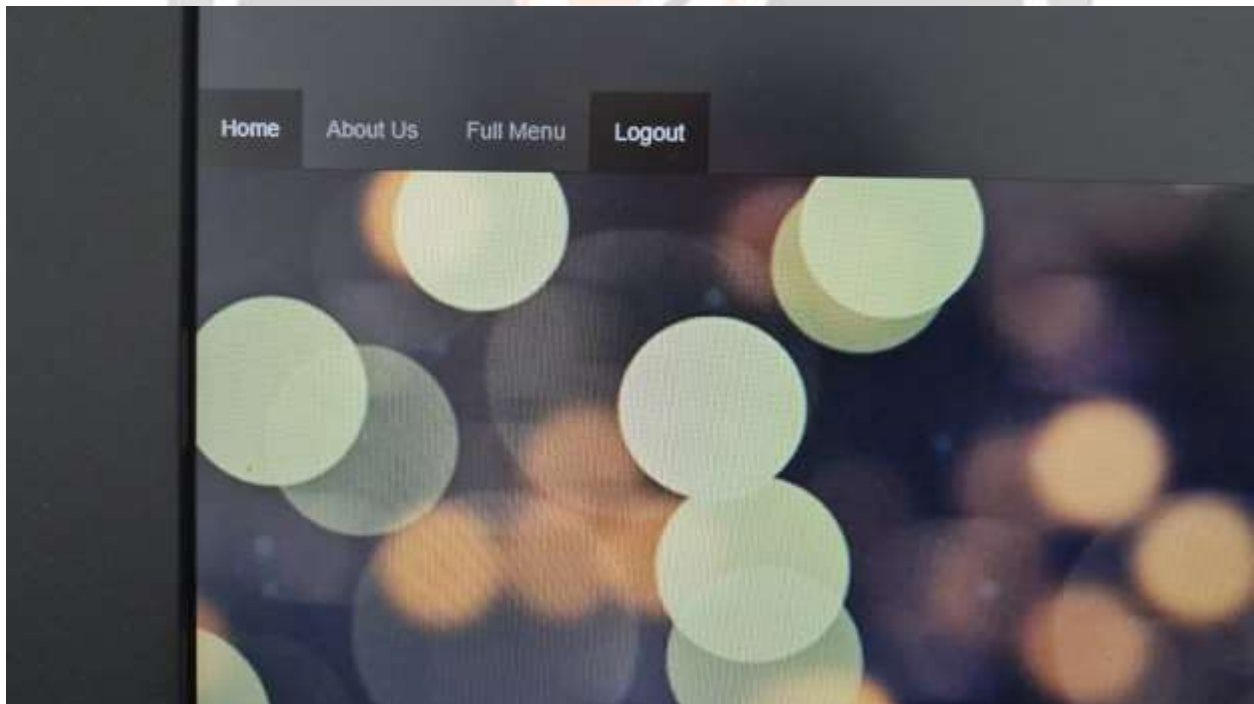
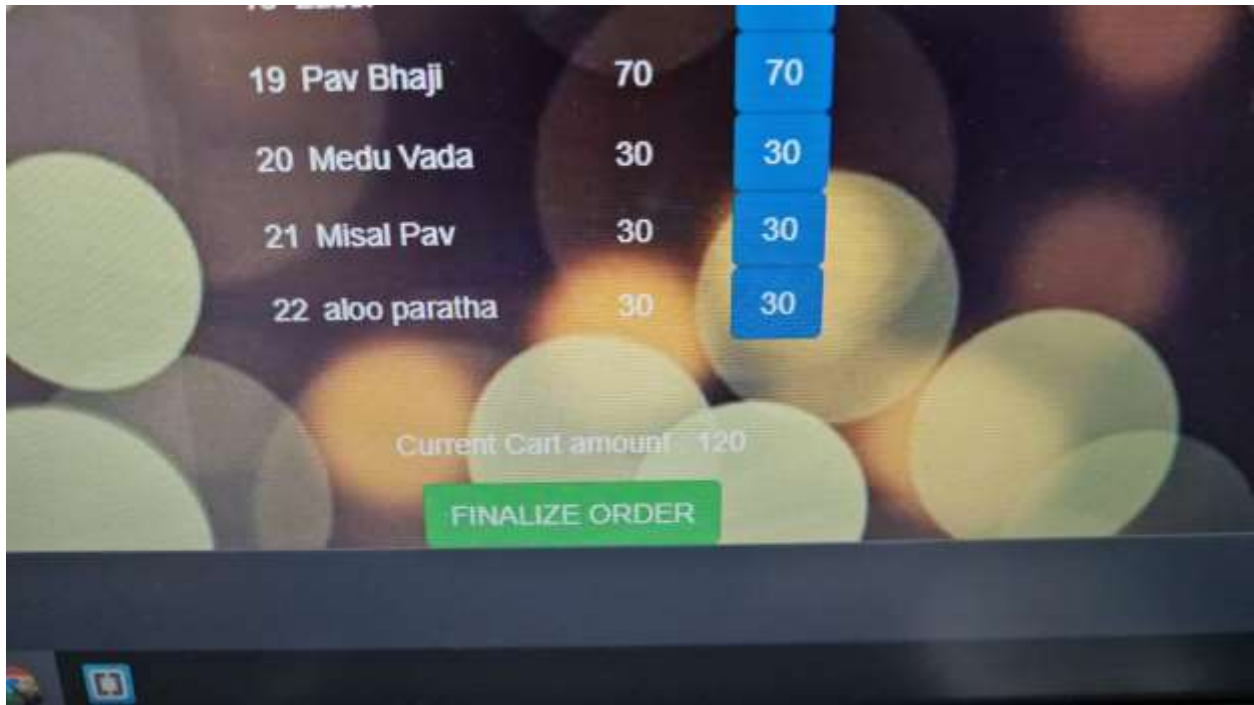
1. Interviewing
2. Record Inspection
3. Observation

## HAEDWARE AND SOFTWARE REQUIREMENT

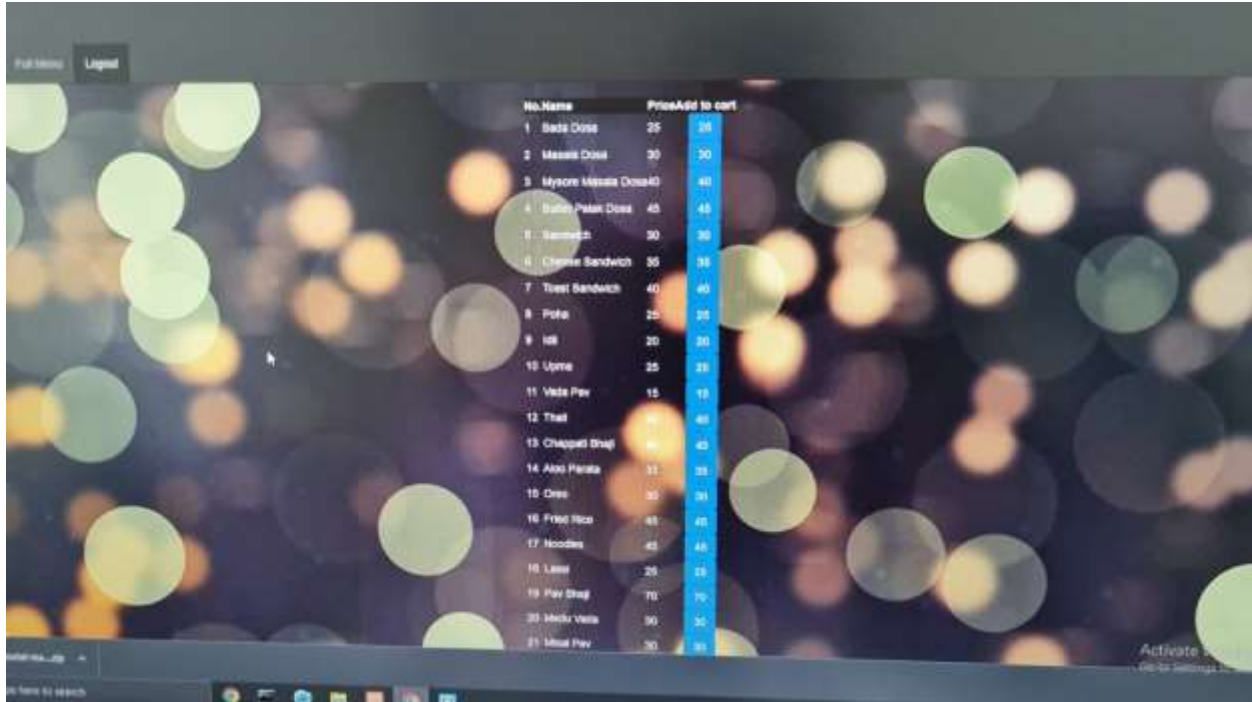
1. Minimum Hardware Requirements
  - i. Monitor
  - ii. Keyboard
  - iii. Mouse
2. Minimum Software Requirements
  - i. Operating System : Windows XP
  - ii. Notpad++,HTML
  - iii. Free space

## RESULT AND DICUSSION









No.	Name	Price	Add to cart
1	Bada Dosa	25	25
2	Masala Dosa	30	30
3	Mysore Masala Dosa	40	40
4	Bada Pesar Dosa	45	45
5	Sambath	30	30
6	Cheese Sandwich	35	35
7	Toast Sandwich	40	40
8	Potta	25	25
9	Idli	20	20
10	Uppma	25	25
11	Vada Pav	15	15
12	Thali	45	45
13	Chappati Dhal	45	45
14	Akki Parata	35	35
15	Dosa	30	30
16	Fried Rice	45	45
17	Noodles	45	45
18	Lassi	25	25
19	Pav Dosa	70	70
20	Macha Vada	30	30
21	Mud Pav	30	30

## CONCLUSIONS

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 apparatus. The system should also serve as a major tool to improving the efficiency in Hotel management. Hence a system with expected results has been developed but there is still room for improvement.

In terms of experience gained through the duration of this project study, the students have been able to have broader knowledge about the management of Hotel organization using manual and automated procedures. The students have also been able to improve their knowledge in developing enterprise applications. We believe this project will serve the university efficiently in their efforts to automate the Hotel management process of the "SACOBEL LODGE"

## REFERENCES

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2. Steven Feuerstein, Bill Pribyl ., PL/SQL Programming