



# Hotel Management System

**Anushka Terwade<sup>1</sup>, Shruti Dhulugade<sup>2</sup>, Pooja Gavali<sup>3</sup>, Komal Lond<sup>4</sup>, R. S. Anami<sup>5</sup>**

Student, Dept. of Computer Technology, Bharati Vidyapeeth. Polytechnic Pune, Maharashtra, India<sup>1,2,3,4</sup>

Lecturer, Dept. of Computer Technology, Bharati Vidyapeeth. Polytechnic Pune, Maharashtra, India<sup>5</sup>

**Abstract:** A Hotel management system is a computerized management system. This system keeps the records of hardware assets besides software of this organization. The proposed system will keep a track of Workers, Residents, Accounts and generation of report regarding the present status. This project has GUI based software that will help in storing, updating and retrieving the information through various user-friendly menu-driven modules. The project “Hotel Management System” is aimed to develop to maintain the day-to-day state of admission/Vacation of Residents, List of Workers, payment details etc. Main objective of this project is to provide solution for hotel to manage most of their work using computerized process. This software application will help admin to handle customer’s information, room allocation details, payment details, billing information, etc.

**Keywords:** Customer’s Information, Room Allocation Details, Payment Details, Billing Information.

## I. INTRODUCTION

The project, **Hotel Management System** is a web-based application that allows the hotel manager to handle all hotel activities online. Interactive GUI and the ability to manage various hotel bookings and rooms 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. Customers can view and book room online as per the requirement. Admin has the power of either approving or disapproving the customer’s booking request. Other hotel services can also be viewed by the customers and can book them too. The system is hence useful for both customers and managers to manage the hotel activities.

## II. SYSTEM DESIGN

In this phase, a logical system is built which fulfils the given requirements. Design phase of software development deals with transforming the client’s requirement into a logically working system. Normally, it is designed to perform in the following two steps: -

### 1) Primary Design phase:

In this phase the system is designed at block level. The blocks are created on the basis of analysis done in the problem identification phase. Different blocks are created for different functions emphasis is put on minimize the information flow between blocks. Thus, all activities which require more interaction are kept in one block.

### 2) Secondary Design phase:

**In the secondary phase the detailed design of every block is performed.**

The general tasks involved in the design process are the following:

1. Design various blocks for overall system processes.
2. Design smaller, compact and workable modules in each block.
3. Design various database structures.
4. Specify details of programs to achieve desired functionality.

## III. MODULES

- 1) Admin
- 2) User

### ADMIN MODULE:

This module provides administrator related functionalities. Administrator can view the registered user and payment model. In this module admin can upload the information about the hostels such as hotel facilities, payment details,



resident allotment details and allotment status. Admin will give the responses to users based on requirements such as checking the hotel strength and availability of rooms, and salary payment for workers. Main goal of the Hotel is to provide security maintenance.

#### USER MODULE:

This module is about the users of this portal. By using this module user can lodge any complaint about process. User must be registered with the system. By using this login id, user will log on to this portal and do all transactions which are assigned to them. User registration details must be secret after that he/she will get personal id, password through that only contact the admin. User sends a room allotment request to the admin and waits until the administrator's response. The user can access the permissions only after getting the response the administrator.

### IV. SYSTEM REQUIREMENTS SPECIFICATION

#### 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 integrated automated system, which has some centralized control over the entire process. Conventional System makes use of huge amounts of paper for recording transactions. The existing system is a manually maintained system. All the Hotel records are to be maintained for the details of each customer, Fee details, Room Allocation, Attendance etc. All these details are entered and retrieved manually.

#### Disadvantages:

- 1) Time Consuming.
- 2) Updating process.
- 3) Inaccuracy of data.

#### Proposed System:

Proposed system is the computerized version of the existing system. Provides easy and quick access over the data. Keeping records of admission of Resident properly so that facilities provided by Hotels are fully utilized in effective and efficient manner. Keeping the records of salary structure of the workers of Hotel by billing approach.

#### Advantages:

- 1) Storing resident details correctly.
- 2) Maintain accuracy.

### I. FUTURE SCOPE

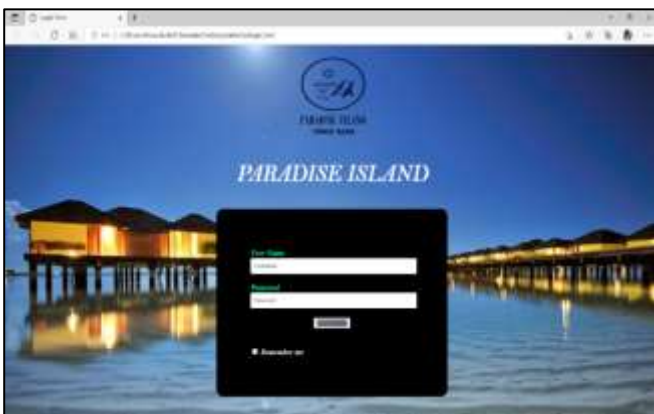
It may help collecting perfect management in details. In a very short time, the collection will be obvious, simple and sensible. It will help a person to know the management of passed year perfectly and vividly. It also helps in current all works relative to Hotel Management System. It will also reduce the cost of collecting the management & collection procedure will go on smoothly.

- In computer system the person has to fill the various forms & number of copies of the forms can be easily generated at a time.
- In computer system, it is not necessary to create the manifest but we can directly print it, which saves our time.
- To assist the staff in capturing the effort spent on their respective working areas.
- To utilize resources in an efficient manner by increasing their productivity through automation.
- The system generates types of information that can be used for various purposes.
- It satisfies the user requirement.
- Be easy to understand by the user and operator.
- Be easy to operate
- Have a good user interface
- Be expandable
- Delivered on schedule within the budget.



## II. SYSTEM SPECIFICATION

- **Hardware:**
  - Processor: Intel core i5-7200u
  - RAM: 8.00GB
- **Software:**
  - Operating System: Windows 10
  - Front End Software: HTML, CSS
- There are some snapshots of the system -



## V. CONCLUSION

To conclude the project, A Hotel management system is a computerized management system. This system keeps the records of hardware assets besides software of this organization. The proposed system will keep a track of Workers, Residents, Accounts and generation of report regarding the present status. This project has GUI based software that will help in storing, updating and retrieving the information through various user-friendly menu-driven modules. The project "Hotel Management System" is aimed to develop in maintaining the day-to-day state of admission/Vacation of Residents, List of Workers, payment details etc. Main objective of this project is to provide solution for hotel to manage most of their work using computerized process. This software application will help admin to handle customer's information, room allocation details, payment details, billing information. Detailed explanation about modules and design are provided in project documentation. The existing system is a manually maintained system. All the Hotel records are to be maintained for the details of each customer, Fee details, Room Allocation, Attendance etc. All these details are entered and retrieved manually, leading to many disadvantages such as Time Consuming, updating process, inaccuracy of data. To overcome these problems, we have introduced or proposed a new system which is the computerized version of the existing system to provide easy and quick access over the data.

## REFERENCES

- 1) Thapa Technical, Hotel Management System, 2019, YouTube <https://www.thapatechnical.com/?m=1>
- 2) Techno Geek 1, Hotel Management System, 2020, YouTube <https://code-projects.org/c/tutorial/>
- 3) StoneRiverElearning, Hotel Management System, 2015, YouTube <https://stoneriverelearning.com/p/unlimited-subscription-stone-river-elearning>