International Journal of Computer Science and Mobile Computing

A Monthly Journal of Computer Science and Information Technology

ISSN 2320-088X
IMPACT FACTOR: 7.056

IJCSMC, Vol. 11, Issue. 1, January 2022, pg.204 – 208

Hotel Management System Using Python Tkinter GUI

SHAILESH KURZADKAR

PROFESSOR OF DEPT.OF COMPUTER TECHNOLOGY, KARMAVEER DADASAHEB KANNAMWAR COLLEGE OF ENGINEERING, NAGPUR, INDIA

skurzadkar@gmail.com

Aboli Dadhe; Pranali Bhoyar; Priyanka Kumbhare; Sakshi Kadak; Nupur Bhore

abolidadhe@gmail.com; pranalib331@gmail.com; priyankakumbhare15@gmail.com; sakshikadak9322@gmail.com; bhorenupur07@gmail.com

STUDENTS OF DEPT.OF COMPUTER TECHNOLOGY, KARMAVEER DADASAHEB KANNAMWAR COLLEGE OF ENGINEERING, NAGPUR, INDIA

DOI: 10.47760/ijcsmc.2022.v11i01.027

ABSTRACT: *Hotel Management System is a desktop application software system where the management of entire hotel is computerized. The hotel management system is using Python. As the rich TKinter GUI for front end and SQL server as the secured backend database. The Tkinter is the gui library of python which is designed to help python developers create system program with a user interface. The hotel management system is rich gui user interface system*
Keywords: *Tkinter, python*

1. INTRODUCTION

Hotel Management System project provides features of security. Added new records can be easily in the database, existing record can be easily modified later on too. So, in short, we can say that 'Hotel management system is a very efficient project, which helps in daily basis work of Booking details and billing details.

The process of reserving rooms the customers, canceling the reserved rooms, booking the rooms vacating the rooms, the restaurant management, billing process, etc. all are computerized and the management is done without any difficulty. The reports can be viewed completely and the head of the management daily weekly or monthly can review them.

2. LITERATURE REVIEW

[1] According to Tim Berners-Lee, HTML which stands for Hypertext Markup Language is the predominant markup language for web pages, a build. A web browser reads HTML documents and compose them into visual or audio web pages. The content of the page Web browsers can also refer to Cascading Style Sheets to define the appearance and layout of text and other materials. The maintainer of both HTML and the CSS standards encourages the use of CSS over

explicitly presentational HTML. PHP is the designed for web development to produce dynamic web pages. PHP code is embedded into the HTML source document and interpreted by a web server with a PHP processor module, which generates the web page document.

3. OBJECTIVES

In the Hotel Management project, a manual working pattern of hotel management will be changed with a computer system. Customers will be able to book hotel rooms in advance with an advance date of check-in. Upon arrival at the hotel, his booking status will be updated to check-in, and similar features will be implemented.

In the next step, the customer's status changes to checkout. The customer's information remains in the history and can be used when they return to the hotel. The user has to just search his record and use it accordingly.

- I. To satisfy the need for having a system that accommodates hotel management.
- II. To avoid manual and repetitive work.

4. HARDWARE / SOFTWARE REQUIREMENT

1. PyCharm
2. SQLite
3. Laptop/desktop
4. Windows 7 or later

5. FURTHER SCOPE

- Separate servers allow for more database storage.
- An online hotel management project provides room booking, staff management, and other features necessary for hotel management. The system allows the manager to post available rooms online.

6. MODULES

1) Hotel Status:

The hotel status show the current status of all vacant and booked rooms. Also show the total number of staff, the number of available rooms, and the total number of reserved rooms.

Total Rooms:	Available Rooms:	Total reservations:	Total Customers:	Total Staff:	Under renovation:
20	9	11	40	21	3

2) Room Status:

A detailed page describing all the rooms' facilities, easy to understand for all customers. The customer can easily choose their Room from the multiple options available.

3) Payments Details:

The payment module show the date of transaction, time of transaction, amount paid and payment method customers can pay with cash, net banking, or ATM card. The payment portal would use a payment gateway to process payment.

4) Reserve: Reservation page for all rooms with entire security details. With Customer profile, people can check the availability of rooms and also book one according to their budget and needs. The Customer profile contains their name, contact details, address, and other information.

7. SYSTEM ARCHITECTURE

We use a booking system in our application. An online booking system is used in our application. The application uses a booking system. Bookings are made using our application. A booking system is built into our application. We use a booking system for our application. An application we use uses a booking system. An application that we are developing uses a booking system.

Fig 1.1. System architecture

Fig.1.2. Flow Chart of Hotel Management System

Fig.1.3 E-R-Diagram for Hotel Management System

8.1. USER SIDE FUNCTIONALITY

The user can only view the front end of the system's process. Users of this module can access hotel information, room details, payment details, rental vehicle information, security details, and contact details.

8.2. ADMIN SIDE FUNCTIONALITY

Admin has control over the entire project. The admin login module is one of these submodules. The admin module is designed to provide easy editing, adding, and deleting of the contents of a variety of pages. It is up to the admin to control which clients/users access data and to block them if necessary.

9.1. ADVANTAGES

1. Admin tasks can be automated to save time.
2. Build strong relationships with your guests.

9.2. DISADVANTAGES

1. Personal Data might be stolen by Admins.
2. Without an Internet connection it is useless.

10. CONCLUSION

The Hotel Management System was developed to replace the manual process of booking a hotel room or any other facility of the hotel.

REFERENCES

- [1]. T. Berners-Lee, Web Design Issues, 1998.
- [2]. Design and Implementation of Hotel Room Management System Wei Wei School of Computer Science and Engineering, Xi'an University of Technology.
- [3]. V. DeBolt, Mastering Integrating Html and CSS, ISBN: 978-0-470-09754-0, 2007.
- [4]. Python GUI Programming with Tkinter: Develop responsive and powerful GUI applications with Tkinter AD Moore. Python and Tkinter programming John Grayson Manning publications Co. Greenwich, 2000.