DESIGN AND IMPLEMENTATION OF HOTEL MANAGEMENT SYSTEM

1. Gadireddy D D Sai Kumar

Dept of CS, SVKP & Dr K S Raju Arts & Science College, Penugonda, A.P, India,

Abstract -

Online Hotel Management System providing user with list of various hotels available in the city considered. It then allows the user to select the item from a list of varied continental dishes. User also enjoys the freedom to exploit the recipe by changing the ingredients on request. The order also has a special option for the diabetic and blood pressure patients. This order is then added to the cart along with any previous orders made and then the bill is paid with credit card online. User is then thrown with a map to locate his habitat to deploy the order at doorstep. The other functions of the website include the ability of user to book a table for dinner, banquet hall or arrange a party as per his responses to the available options. Then the lists of hotels or restaurants appear which have the required facilities.

1. INTRODUCTION

Application for Online Hotel Management System providing user with list of various hotels available in the city considered. It then allows the user to select the item from a list of varied continental dishes. User also enjoys the freedom to exploit the recipe by changing the ingredients on request. The order also has a special option for the diabetic and

2. B.N. Srinivasa Gupta

Associate Professor, Dept of CS, SVKP & Dr K S Raju Arts & Science College, Penugonda, A.P, India.

blood pressure patients. This order is then added to the cart along with any previous orders made and then the bill is paid with credit card online. User is then thrown with a map to locate his habitat to deploy the order at doorstep. The other functions of the website include the ability of user to book a table for dinner, banquet hall or arrange a party as per his responses to the available options. Then the lists of hotels or restaurants appear which have the required facilities.

Scope

Application for Online Hotel Management System providing user with list of various hotels available in the city considered. It then allows the user to select the item from a list of varied continental dishes. User also enjoys the freedom to exploit the recipe by changing the ingredients on request. The order also has a special option for the diabetic and blood pressure patients. This order is then added to the cart along with any previous orders made and then the bill is paid with credit card online. User is then thrown with a map to locate his habitat to deploy the order at doorstep. The other functions of the website include the ability of user to book a table for dinner, banquet hall or arrange a party as per his responses to the available options. Then the lists of hotels or restaurants appear which have the required facilities.

Purpose

- 1. Application for Online Hotel Management System providing user with list of various hotels available in the city considered.
- 2. It then allows the user to select the item from a list of varied continental dishes.

User also enjoys the freedom to exploit the recipe by changing the ingredients on request.

2. OVERVIEW OF THE SYSTEM

Existing System

- It cans manual system and maintaining records difficult.
- Complexity in management of hotels.
- The existing system may not provide security to Data Base.
- Maintain employees, room types, facilities details is risky tasks.
- This system is not providing secure registration and profile management of all the users properly.
- Maintaining inventory details are inefficiently.
- Maintaining customer orders are poor.

Proposed System

The development of this new system contains the following activities, which try to automate the entire process keeping in the view of database integration approach.

Automates information related to all hotels.

- Avoid mismanagement (verify users profiles, registration of all employees, room types, customer orders, facilities)
- We can maintain all type of user's details properly.
- Rich user interface.
- Maintaining order details are nice.
- Maintaining items, customer booking details are efficiently.

Number of Modules

- 1. General Information and Users Registration Modules.
- 2. Customer Information Module
- 3. Employees Module.
- 4. Hotels and Items Modules.
- 5. Booking Rooms and Facilities Module.
- 6. Orders and Shipping Module.
- 7. Credit Cart Module.

Modules Description

1. General Information and Users Registration Modules

In this module a general user get the Hotel information ,Booking Types Details, item details and registration details, services details, about us ,contact us details.

2. Customer Information Module:

This module contains the personal information of customer. He can view the item, room types, search item, facility items and make orders.

3. Employees Module:

In this module the employee who belongs to hotel can view the personal details and modify. He/she view the orders of customers and grant orders for particular customer, view booking types, facility types, hotel profile, view Items, orders.

4. Hotels and Items Modules:

The Administrator for this organization will add new hotels and facilities done by administrator, to view all the general persons and customer who want to bookings and orders the items.

5. Booking Rooms and Facilities Module:

In this module the administrator can introduce new booking types, room types, facilities. Include all above booking room type, this organization gives the information of all facilities, which is useful to all types of users.

6. Orders and Shipping Module:

Based on facilities to the customers may request or orders for items and booking rooms ,so when employees view orders he can accepts the customer request based on a availability.

7. Credit Cart Module:

In this module according to the customer requirement that is booking rooms and orders items can done through on line so cannot pay money by hand ,but he can choose alternate to pay amount by credit cart which can provide by third party application

3. SYSTEM DESIGN

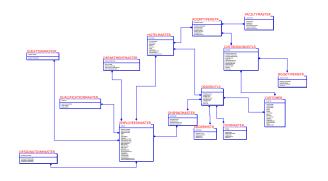


Fig 3.1: ER Diagram

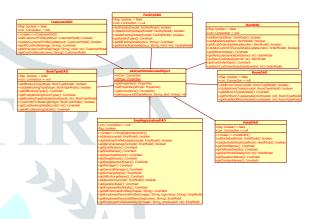


Fig 3.2: Class Diagram

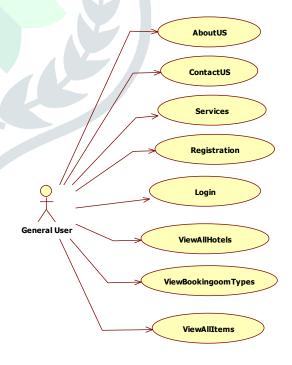


Fig 3.2: SYSTEM USE CASE DIAGRAM

4. OUTPUT SCREEN SHOTS

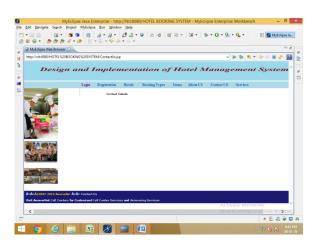


Fig 4.1: Home Page

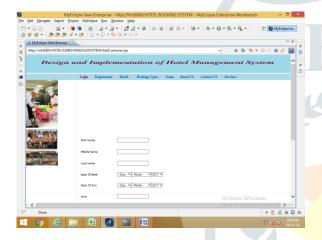


Fig 4.2: Registration Page

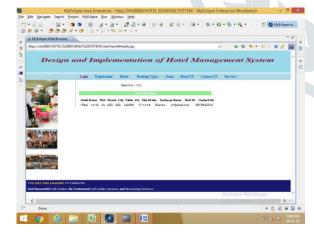


Fig 4.3: View All Bookings Page

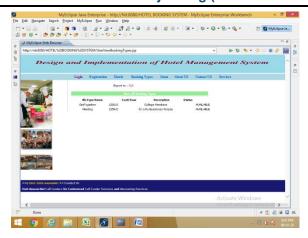


Fig 4.4: View all items Page

5. CONCLUSION AND FUTURE ENHANCEMENT

It has been a great pleasure for me to work on this exciting and challenging Development of an application for Design and implementation of hotel management system project. It also provides knowledge about the latest technology used in developing web enabled application and client server technology that will be great demand in future. This will provide better opportunities and guidance in future in developing projects independently.

BENEFITS:

The project is identified by the merits of the system offered to the user. The merits of this project are as follows: -

- It's a web-enabled project.
- This project offers user to enter the data through simple and interactive forms. This is very helpful for the client to enter the desired information through so much simplicity.
- The user is mainly more concerned about the validity of the data, whatever he is entering. There are checks on every stages of any new creation, data entry or updating so that the user cannot enter the invalid data, which can create problems at later date.
- Sometimes the user finds in the later stages of using project that he needs to update some of the information that he entered earlier. There

are options for him by which he can update the records. Moreover there is restriction for his that he cannot change the primary data field. This keeps the validity of the data to longer extent.

- User is provided the option of monitoring the records he entered earlier. He can see the desired records with the variety of options provided by him.
- From every part of the project the user is provided with the links through framing so that he can go from one option of the project to other as per the requirement. This is bound to be simple and very friendly as per the user is concerned. That is, we can sat that the project is user friendly which is one of the primary concerns of any good project.
- Data storage and retrieval will become faster and easier to maintain because data is stored in a systematic manner and in a single database.
- Decision making process would be greatly enhanced because of faster processing of since information data collection from information available on computer takes much less time then manual system.
- Allocating of sample results becomes much faster because at a time the user can see the records of last years.
- Easier and faster data transfer through latest technology associated with the computer and communication.
- Through these features it will increase the efficiency, accuracy and transparency,

LIMITATIONS:

The size of the database increases day-by-day, increasing the load on the database back up and data maintenance activity.

Training for simple computer operations is necessary for the users working on the system.

6. REFERENCES

https://www.projectshelve.com/topics/preview/ design-and-implementation-of-hotelmanagement-system

- https://www.academia.edu/36302522/A_DESI GN_AND_IMPLEMENTATION_OF_ONLIN E_HOTEL_MANAGEMENT_SYSTEM_CAS E_STUDY_
- https://iproject.com.ng/computerscience/design-and-implementation-of-a-hotelmanagement-information-system/index.html
- https://ieeexplore.ieee.org/document/9002651
- https://www.classgist.com/projectdetails.aspx?i
- https://afribary.com/works/design-andimplementation-of-computerized-hotelmanagement-information-system-hotel
- https://nairaproject.com/projects/785.html.

About Authors:



Gadireddy D D Sai Kumar is currently pursuing CS SVKP & Dr K S Raju Arts & Science College, Penugonda, West Godavari A.P. His research interests include Data Mining, Artificial Intelligence.



B.N. Srinivasa Gupta is working as Associate Professor in SVKP & Dr K S Raju Arts &Science College, Penugonda, A.P. He received Masters Degree in Computer **Applications** from Andhra

University and Computer Science & Engineering from Jawaharlal NehruTechnological University Kakinada, Kakinada, India. His research interests include Data Mining, Cyber Security, Artificial Intelligence