Web Portal for "Sagari Niwara Beach Resort"

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Abstract—This We are trying to make something innovative and attractive for lodging and restaurant related Web Portal for "SagariNiwara Beach Resort".The website will focus on communication between customer and owner and also provide some functionalities require to manage the inventory and other services like jet-ski, parasailing without doing paperwork.The services that we are going to provide are advance room booking and reservation of table by the customer through the payment gateway. Main objective to build this website is to fulfill the requirement of owner and provide services to the customer. In our website online reservation will become easier and systematic to replace traditional system where they are still using papers. The owner can perform functions like menu updating, maintaining bill records, updating gallery, calculating profit/loss and lodging maintenance. These functionalities helps the owner to save his time as well as to manage the work effectively.

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I. INTRODUCTION

The previous website of the SagariNiwara Resort was only for the purpose of advertisement. There was no any storage of the data. In the existing website the work of room booking and inventory management was done manually. The user registration was not possible; user could only see the contact information about SagariNiwara Resort. There was no any additional information about rooms, menus, other services like jet-ski and parasailing which are available in the resort. The previous website did not provide any type of services to user like advance room booking, feedback facilities.

We are going to develop a new website for SagariNiwara Resort which helps the owner to maintain all the work digitally. In the system which we are going to propose user registration will be done and only registered user can apply for advance room booking by paying some advance amount through ATM/debit card. The admin can maintain other services like jets-ki, parasailing, gallery details, menu details and this information will be available to user. User can also give feedback about the services which will provide by admin..

II. LITERATURE REVIEW

In the reference [1] author has mentioned that, in the existing system they were not included information about famous places near to that resort. So including that information will be helpful for strangers to find out famous places and it is beneficial from business point of view.

In research paper [2]author gave information about the existing system. He has mentioned that they were included menus available in the resort based on the preference of customer but not gave importance to other functionalities which will have been included in our system.

In the web link [3] the previous system of SagariNiwara Resort was developed to provide the basic information and contact information about resort. We are going to add some extra functionalities.

In the web link [4] that website doesn't have attractive design as well as user interface. So our website will achieve these things.

III. PROBLEM STATEMENT

Developing a Web Portal for "SagariNiwara Beach Resort" to ease of communication between owner and customer of resort as well as to provide facilities of advance room booking for customer and services like menu updating, maintaining bill records, maintaining gallery, calculating profit/loss and lodging maintenance for owner.

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IV. PROPOSED SYSTEM

A. Outline

The website has two main components, mainly customer and owner.

1) Administrative Panel

This web Portal will be used to create and manage the users. The privileges to use this panel will be given to a trustworthy person i.e. owner. The data to and from the website will be synchronized with the database. Administrator will perform tasks like menu updating, maintaining bill records, maintaining gallery, calculating profit/loss and lodging maintenance.

2) User Panel

First of all the user need to register on the website.The register user will get many facilities like advance room booking and feedback facility. The user will also view the gallery, menu details and other services details which update by the owner.

B. Block Diagram of Proposed system

As shown in figure 1, the user and admin will access data from system and request for services and require information from system, respectively. Admin will provide services to user.

Administrator will create and manage whole website on admin panel. Sending authorized upper level notifications will be in hands of the admin. Other administrative functions like room booking details, inventory management, updategallery, calculation of profit and loss will be done at this end.
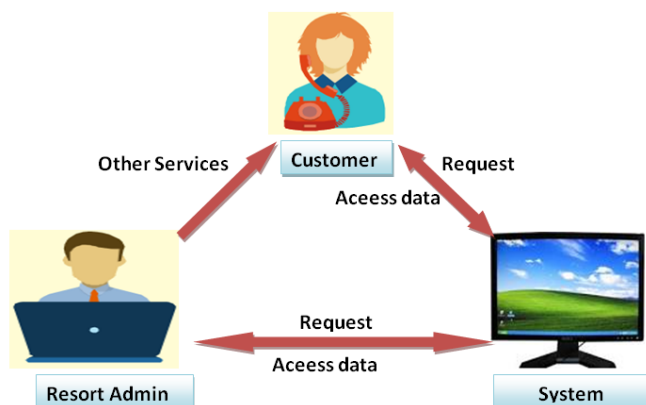
Fig. Block Diagram of SagariNiwara Beach resort

Different Modules in the application are as follows:

1) Admin profile:

The administrator will have own profile. The important notifications will be updated by the administrator panel. Admin will be the authorized person having the rights to handle the complete website and he will send notifications to user. Admin provide service of online payment using payment gateway through credit card to the user.

2) User profile:

User is the person who interacting with the website by performing registration/login to the website for the purpose of gaining information about the SagariNiwara Resort. User will have the well design system interface for better user friendly environment.

C. Assumption

1) The Users should have internet connection.

2) There should be a person in the deployment environment who can handle the Administrative Panel.

D. Hardware and Software Requirements

1) _Hardware Requirements for Developer:_

  a) _RAM: Minimum 2 GB, 4GB recommended_

  b) _Processor: intel(R) core (TM)i3-2310M CPU_

  c) _Disk Space: Minimum 1 GB_

2) _Hardware Requirements for User:_

  a) _Internet compatible device with:_

  i) _RAM: 512 MB or above_

  ii) _ROM: Minimum 100 MB_

  b) _Computer website supporting web browser._

3) _Software requirement for Developer:_

  a) _Xampp Server_

  b) _Notepad ++_

  c) _Windows 7 or above/Linux_

4) _Sofrware Requirements for Users:_

  a) _Web Browser supporting HTML5 and CSS3 - For Administrator Functions_

E) Limitation

1) _Internet will be required frequently for communicating with server._

V. METHODOLOGY AND IMPLEMENTATION

A) Methodology

The term methodology means the technique and procedure adopted by conducting a research study. It outlines how data will be collected and the tools for collecting data, system methodology, the proposed system input and output, users and systems development tools.

1) Facts Finding Techniques

It shows how data will be collected from the users of the system. The data collection techniquesto be used include:

  a) _Objectives_

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It will use this technique to collect information about how the current system operates and its processes. This involves systematically watching and recording the behavior and characteristics of operations and processes. This information gathering helps us for finding limitations of current system and what we have to include in the system we are going to introduce.

b) Questionaries

With the help of brainstorming we will prepare a number of questionnaires whereby we will submit them to admin to get a deeper insight of how the system is going to work. By analyzing answeres given by admin as well as customers we get clear about what we should include in our system and what should avoid to get better results.

This technique is preferred because it will provide a closer contact between the users and the developer. It also permits clarification, has high response rate than interviews and helps to get full range and depth of information.

c) Secondary data Collection

We will take references of existing sources like books, internet, journals, researchpaperswhich was collected by other researchers and analysis was done. This data will compare with the primary data and make a decision and conclusion.

d) Algorithm

The Secure Hash Algorithm was developed by National Institute of Standards and Technology (NIST). It is based on the MD-4 algorithm. We are going to used this algorithm for encrypting password.

Unlike encryption, given a variable length message x, a SHA-1 algorithm computes a function h(x) which has a fixed and often smaller number of bits. When a message of any length is less than 2^{64} Bits is input, SHA-1 produces a 160 Bit output called message digest. SHA-1 called secure because it is computationally infeasible to find a message which corresponds to a given message digest, or to find two different messages which produce the same message digest.

2) Database design

The general theme behind a database is to handle information as an integrated whole. A database is a collection of interrelated data stored with minimum redundancy to serve the users quickly and effectively.

VI. PLAN OF IMPLEMENTATION

There will be two main modules in the website.

A) Administrative Panel:

a) Design database required for the website.

b) Decide dependencies betweendatabase.

c) Design interconnectivity of database.

d) Define administrative function.

e) Design interface for administrator to perform those function.

B) User Panel

f) Give feedback to website.

g) Advance room booking.

h) Inform new requirements.

VI. CONCLUSION

At the end, it is conclude that web Portal for "SagariNiwara Beach Resort" will be user friendly. It will help the owner to manage his work smoothly and maintain all the data of resort effectively. It will also help the user to search or retrieve useful information as required. Our System will achieve the functionalities which will overcome all the drawbacks of previous system of SagariNiwara Resort..

REFERENCES

[1] E.Duran, D.Z.Seker, M.Shreshtha, "On Web-Based information website for tourism resort; a casestudy for side/manavgat" .

[2] Mohammed Baiomy, "Tourism Research and Hospitality".