Online Hotel Reservation System

MS.Caroline  
Dept of computer science and engineering,  
SRMIST,Ramapuram campus,  
Chennai-89.

B.V.VishnuVardhan  
Dept of computer science and engineering,  
SRMIST,Ramapuram campus,  
Chennai-89.

M.V.S.JaswanthPranay  
Dept of computer science and engineering,  
SRMIST,Ramapuram campus,  
Chennai-89.

Abstract
In today’s world, everyone need solutions at the tip of their fingers. The required solutions are expected to be time efficient. And also the energy to be spend on the execution of the particular solution is also expected to be less. Meanwhile, students and workers face a lot of issues while they have to relocate to places far away from their houses for studies or work. One of the most prominent issues is accommodation. Many do not find a clean and hygiene PG or hostel easily. They do not get rooms and spaces that satisfies their requirements. Hence, we have come with a application, that makes this process easier. The application will be designed to have data about hostels and PGs around the particular place. It will also offer features like booking, payments and room viewing. So, the particular issue can be resolved in no time and the users can save time and energy spent. This application is very easy and useful to customer and owner of the PG hostel. We can do the payment at a time. In this application there is no issues of payment and fake documents. In this application we are introducing the video of the PG.

Keywords: reservation, hostel, customer.

1 Introduction
The Hostel like any other business opens up socio-economic opportunities for both owner and customer. It has the function of providing hospitality services to customers. These customers can bestudents, bachelors, employees, job searchers, visitors, etc. Customers are mostly constrained in trying to get a room to pass the month or more than one month, as the usual practice is to look for a hostel when you have arrived in the particular location, walk in and find out whether there is a vacant room. In the case that there is no vacant room, you have to move to next closest hostel to enquire once more. So what happens if you move around sometimes very late in the night in search of a room and all close by hostels are fully booked? Other times you may be lucky to have the contact number of the hostel to reach them to book for a room. But do the hostel attendants really ensure to keep a room for you? You would be lucky to go and get a room booked for you. In this application we are introducing that video of the certain hostel. Here by no more fake documents are included in this application. In today’s world, everyone need solutions at the tip of their fingers. The required solutions are expected to be time efficient. And also the energy to be spend on the execution of the particular solution is also expected to be less. Meanwhile, students and workers face a lot of issues while they have to relocate to places far away from their houses.
to as Structured Query Language, designed for managing data in RDMS and originally based on Notepad is a common text-only (plain text) editor. The resulting files typically saved with the .txt extension have no format tags or styles, making the program suitable for editing system files that are to be used in a DOS or HTML environment (533507.weebly.com). Notepad supports both left-to-right and right-to-left based languages (Afriyie, 2012).

**PG Hostel Reservation Systems**

A PGhostel reservation system, commonly known as a central reservation system (CRS) is a computerized system that stores and distributes information of a hostel, resort or other lodging facilities (www.mindspeakit.com). A CRS offers assistance to hostellers to manage all of their online marketing and sales where they can upload their rates and service availabilities to be seen by sales channels (www.mindspeakit.com). The list of main modules that are present in a CRS are: Content, Information stored on a CRS and Reporting. Content consists of Reservations, Profiles, Groups and Blocks, Rate and Inventory Control, Administration, Global Distribution Interface, Web-based Interface. Information commonly stored in a CRS consists of Room Types, Rate plans architecture, Room rates and conditions (guarantee, deposit, customized cancellation rules, minimum length of stay, maximum length of stay, closed to arrival, arrival not allowed, departure not allowed, …), Room inventories, Generic hotel information (address, phone number, fax number), Reservation information. The CRS Reporting module provides a number of standard reports. System reports may be generated automatically and may be run daily, weekly, monthly, yearly. It includes Expected Arrivals, Reservation, Property Forecast, Total Booking Activity, Stay Activity, Monthly Booking Activity, Daily Booking Activity and Property Detail.

**3 The Existing System**

The Hostel currently runs a manual booking system and therefore requires customers to only book for rooms or any other service by walking to the receptionist or calling them on phone or using a third party option. Any enquiry to be made demanding feedback must usually be forwarded to the hostel in person. Sometimes management is given false reports concerning the work flow of the hostel and employees also give falsified pricing information to customers from time to time.

From an employee’s account, details of customers are hardly used in the workflow and that also, records are not properly kept; books used to keep records are disposed of when they get filled up. Hansonic Hostel hardly advertises and depends on word of mouth adverts by some loyal customers in and around its vicinity.

The proposed system is a web based application that allows customers to make enquiries online and book for services providing the required details. It adopts the virtual tour feature that was seen in the Shangri-La Hostel in Singapore. The following are solutions the proposed system brings on board:

- Well laid out information about Hansonichostel.
- The manual booking system system is replaced with an online reservation system.
- Management can pull reports at anytime to tell the current situation in order to put the necessary measures in place.
- The system helps secure customer information since no information is disposed off.

A customer surfs through any of the items of the proposed system. An about us page is designed to allow customers get all necessary information about the hostel and its facilities. A contact us page is provided where customers can send emails. More importantly, customers can make reservations at their own pace.

This study has been categorized into four groups:

- System monitoring done by system administrator
- Filling forms to make enquiries and reservations
- Approving or deleting enquiries
- Virtual Tour

![Fig. 1: Context Diagram of Old System](image1)

![Fig. 2: Context Diagram of Proposed System](image2)
5 Methodology

Macromedia Dreamweaver was used because it is user friendly and has a lot of features. Dreamweaver lets users build Web pages by dropping elements onto the page (Malloy, 2001). It provides transfer and synchronization features, the ability to find and replace lines of text or code by search terms and regular expressions across the entire site, and a templating feature that allows single-source update of shared code and layout across entire sites without server-side scripting (lib.fsu.edu). The behavior panel also enables use of basic JavaScript without any coding knowledge (Sfetcu, 2014).

Microsoft internet explorer was the browser used for the project as it is free and comes with all windows based operating system. Once the browser has connected to a website, a document file is sent to the user’s computer; the browser contains HTML command, it interoperates these commands and displays the document as a web page. Adobe Flash (formerly Macromedia Flash) is a multimedia platform used to add animation, video, and interactivity to web pages (Bidgoli, 2011).

WAMP is a package of independently-created programs installed on computers that use a Microsoft Windows operating system (techstream.org). WAMP is an acronym formed from the initials of the operating system Microsoft Windows and the principal components of the package: Apache, MySQL and one of PHP, Perl or Python (adroitcare.wordpress.com). PHP is a scripting language that can manipulate information held in a database and generate web pages dynamically each time content is requested by a browser (www.marolinedesign.com). PHP was used for the server programming which is basically queries used to link the website to the database. Other programs were included, such as phpMyAdmin which provides a graphical user interface for the MySQL database manager.

6 Design and Development of the Proposed System

User Interface Design

The webpage design helps users gain access to the information that the website presents. Users are given higher priority before any building can be done and for that matter the size of the system and the general outlook has to be taken into consideration. There is an interface designed for the user and the administrator.

6.1.1 Administrator Interface Design

The administrator interface has a login feature for the administrator to gain access to the system.

![Administrator Interface Design](image)

Database Design

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Data Type</th>
<th>Width</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admin_id</td>
<td>Int</td>
<td>10</td>
<td>Admin Id(auto increments)</td>
</tr>
<tr>
<td>Username</td>
<td>Varchar</td>
<td>30</td>
<td>Name of Admin</td>
</tr>
<tr>
<td>Password</td>
<td>Varchar</td>
<td>10</td>
<td>Password of Admin</td>
</tr>
</tbody>
</table>

Table 1: Room details

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Data Type</th>
<th>Width</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RoomNo</td>
<td>Int</td>
<td>10</td>
<td>Room Number</td>
</tr>
<tr>
<td>RoomType</td>
<td>Varchar</td>
<td>20</td>
<td>Room Type</td>
</tr>
<tr>
<td>RoomPrice</td>
<td>Currency</td>
<td></td>
<td>Room Price</td>
</tr>
</tbody>
</table>

Table 2: Admin Details
Table 3: Customer Details

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Data Type</th>
<th>Width</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer_id</td>
<td>Int</td>
<td>10</td>
<td>Customer Id</td>
</tr>
<tr>
<td>Name</td>
<td>Varchar</td>
<td>15</td>
<td>First Name of Customer</td>
</tr>
<tr>
<td>lastName</td>
<td>Varchar</td>
<td>20</td>
<td>Last name of Customer</td>
</tr>
<tr>
<td>Location</td>
<td>Varchar</td>
<td>20</td>
<td>Residential address of Customer</td>
</tr>
<tr>
<td>Address</td>
<td>Varchar</td>
<td>20</td>
<td>Postal address</td>
</tr>
<tr>
<td>Email</td>
<td>Varchar</td>
<td>15</td>
<td>Email Address</td>
</tr>
<tr>
<td>Telephone</td>
<td>Varchar</td>
<td>15</td>
<td>Telephone number of customer</td>
</tr>
</tbody>
</table>

Development of the Proposed System

There is a proper use of colors, font type and size to make reading easy. Hyperlinks change color to show whether the customer has already visited. Text boxes and buttons are provided to enable users input data. Labels are placed next to the text boxes to help users know what kind of data is required for each box. On the top are menus that help users see what has been hidden by clicking on the hyperlinks. The main page gives a front view image of Hansonic Hotel, and to the left, daily information and news concerning the hotel.

IMPLEMENTATION

A customer’s web browser issues an HTTP request from the Contact page. On clicking the button, the content of the fields are posted from the customer’s browser as a request to the web server. On receiving the request, the web server retrieves the file, Contacts.asp from its disk or memory and passes it to the php,
php.dll, after processing the file php sends the HTML page to the server.

![Diagram of Transfer of Request]

Fig. 10: Transfer of Request

7 Conclusion

The Online Hotel Reservation System was developed to replace the manual process of booking for a hotel room or any other facility of the hotel. The old system does not serve the customer in a better way; rather it makes customer data vulnerable. The new system keeps proper records of customers for emergency and security purposes. The hotel’s advertising effort is now accompanied by a virtual tour created on the system.

References