

Hotel Management System

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Abstract—This project is specially developed to help hotel staff. The project Hotel Management manages and maintains the records of customers and room in the hotel.

The rooms have different categories such as Deluxe, Single, Guest etc. So, their charges and records will be maintained accordingly.

This Project has been made in a user friendly interface, so that anyone can add, delete the entries of customers and handle all the transactions easily.

As a security we have provided Admin user level authentication for different modules such as set-up-user etc. Also the user name and password gets stored in the database in encrypted format more dealing with the security.

Customer can either make booking in advance, or he can directly Check-In. For the convenience of Administration, we have provided facility to generate report of transactions made in terms of check-in check-out, bookings by day or specified timespan

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Index Terms—Php, Xampp, Mysql, HTML, Bootstrap, Sublime text, Git hub, Java Script, Css,

I. INTRODUCTION

Hotel Management System is a hotel reservation site script where site users will be able to search rooms availability with an online booking reservations system. Site users can also browse hotels, view room inventory, check availability, and book reservations in real-time. Site users enter check in date and check out date then search for availability and rates. After choosing the right room in the wanted hotel – all booking and reservation process is done on the site and an SMS is sent to confirm the booking.

Administrator Panel

Account Manager

- Administrator – Administrator can manage administrator accounts and conform the rooms.

- Room Types – Administrator can define the type of rooms in the hotels, room's prices and upload an image for each room.

- Bookings – All booking and reservations made on the site are displayed with all booking details:

arrival date, departure date, hotel name, room type, number of passengers, price.

NEEDS OF HOTEL MANAGEMENT SYSTEM

This system will help administration to work easily. Because of its easy access and less time consuming administration can get the information of the Users, Rooms, Payments, etc. They do not have to search in the paper file for the log time. Members can easily handle the system.

- Requirement Gathering and analysis - All possible requirements of the system to be developed are captured in this phase and documented in a requirement specification document.

- System Design The requirement specifications from first phase are studied in this phase and the system design is prepared. This system design helps in specifying hardware and system requirements and helps in defining the overall system architecture.

- Implementation With inputs from the system design, the system is first developed in small programs called units, which are integrated in the next phase. Each unit is developed and tested for its functionality, which is referred to as Unit Testing.

- Integration and Testing All the units developed in the implementation phase are integrated into a system after testing of each unit. Post integration the entire system is tested for any faults and failures.

- Deployment of system Once the functional and non-functional testing is done; the product is deployed in the customer environment or released into the market.

- Maintenance There are some issues which come up in the client environment. To fix those issues, patches are released. Also to enhance the product some better versions are released. Maintenance is done to deliver these changes in the customer environment.

II. LITERATURE REVIEW

Hotel is a building, symbol, company or business entity that provides services accommodation, food and beverage providers and other service facilities where all the services are intended for the people, whether they are staying overnight at the hotel or those who only use the facilities. According to the experts the definition of hotel: Rumeekso (2002:2) states that hotel is a building which hires the rooms with the facilities such as food and beverage which is run well to get the benefits. Sulastiyono (2007:3) says that hotel is an accommodation that gives the facilities like rooms, food and beverage and other

supporting facilities such as sport area, and laundry. According to Tarmoezi and Manurung (2007:1) hotel is a building that provides the rooms with the supporting facilities such as the food and beverage. Base on the definition, hotel is not only sells the room but hotel is one of accomodation that sell the other facilities.

III. PROPOSED METHODOLOGY

Hotel reservation system plays a great role and has a potential effect on day to day performance measures, this type of system have highly evolved from decades due to high demand for their use, effective and efficiency in any given institutions.

Home
About
Team
Gallery
Rooms
Contact Us

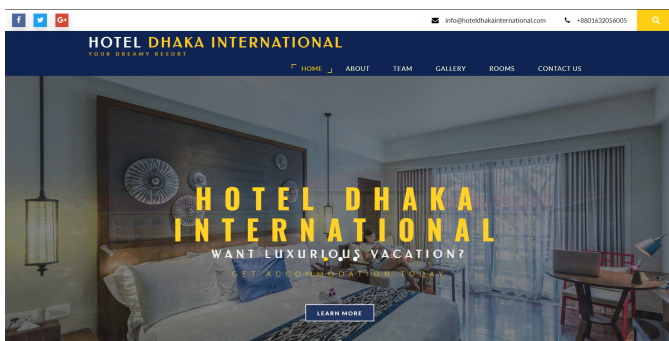


Fig. 1. Home Page

IV. EXTERNAL INTERFACES

- This interface will be actual interface through which the user will communication with the application and perform the desired tasks.

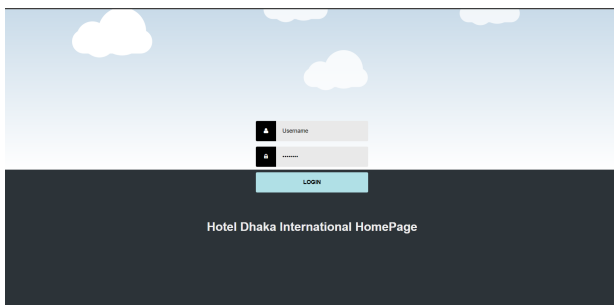
Admin login I.D:

Role: Admin wishes to login to the system

Precondition: Username and Password

Success end Condition: Main option of screen display

Failed end Condition: User has entered incorrect Username and Password or both



Conform

ID: Precondition: Admin has successfully navigated to the search result

Success end Condition: Admin has successfully made the changes

DESCRIPTION	INFORMATION
Name	Prof Alex Martin
Email	alexmartin4009@gmail.com
Nationality	Sri Lankan
Country	Italy
Phone No	23673924
Type Of the Room	Guest House
No Of the Room	1
Meal Plan	Room only
Bedding	Double
Check-in Date	2021-09-24
Check-out Date	2021-09-25
No of days	1
Status Level	Not Conform

Select the Confirmation

Conform

Conform

Superior Room

Guest House

Single Room

Deluxe Room

Total Rooms

V. SOFTWARE PRODUCT FEATURES

Hotel Management System - Sequencing information - Login information should be filled before the user allowed. - Error Handling - If user doesn't filled up validate information then the system display error message for user and request to enter the validate information. Performance required - Security - System should be Protected from unauthorized access Where the validate Username and Password are required so no other can access.

VI. USE CASE DIAGRAM

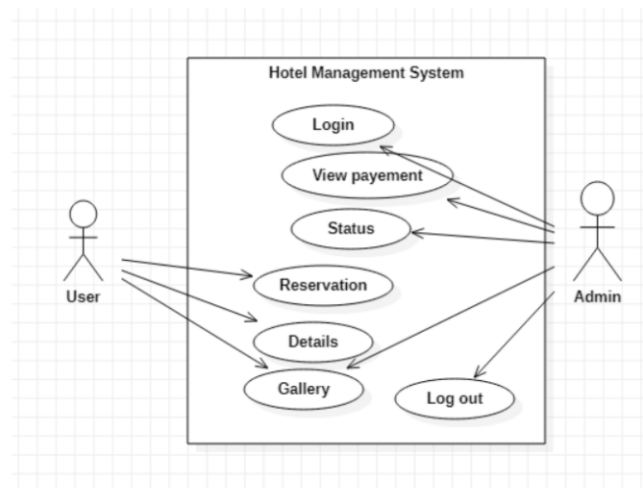
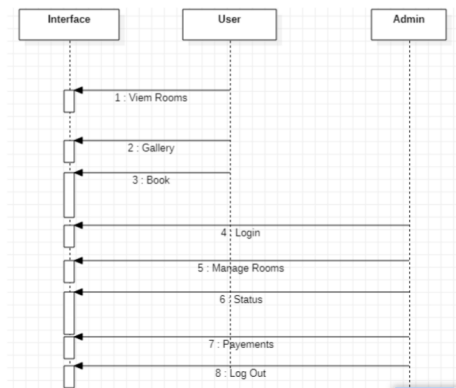
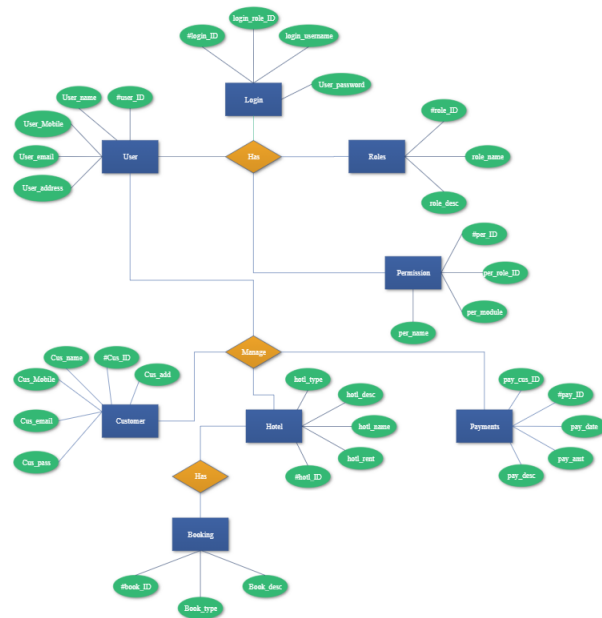


Fig. 2. Use case diagram

VII. SEQUENCE DIAGRAM



VIII. ER DIAGRAM



IX. ADVANTAGE

- The advantages of booking a hotel online add up long before your arrival. Our legendary customer service extends to the web - One advantage of booking with the hotel directly is the use of the hotel's full cancellation policy as well as not needing a deposit in most situations. - Read reviews and compare prices for Online Hotel Booking. - The most important advantage of online hotel booking is convenience, you can book your room by simply sitting in home. Internet helps you to browse through the hotels around the world and compare the facilities and rates easily.

X. SCOPE AND FEASIBILITY

This activity is also known as the feasibility study. Perform and evaluate feasibility studies like cost-benefit analysis, technical feasibility, time feasibility and operational feasibility for the project. Project Scheduling should be made using charts. Feasibility study is carried out to decide whether the proposed system is feasible for the company. It begins with a request

from the user for a new system. It involves the following: - Identify the responsible user for a new system - Clarify the user request - Identify deficiencies in the current system - Establish goals and objectives for the new system - Determine the feasibility for the new system - Prepare a project charter that will be used to guide the remainder of the Project.

XI. SYSTEM ANALYSIS

It is a process of collecting and interpreting facts, identifying the problems, and decomposition of a system into its components. System analysis is conducted for the purpose of studying a system or its parts in order to identify its objectives. It is a problem solving technique that improves the system and ensures that all the components of the system work efficiently to accomplish their purpose. The objective of the system analysis activity is to develop structured system specification for the proposed system. The structured system specification should describe what the proposed system would do; independent of the technology, which will be used to implement these requirements. The structured system specification will be used to implement these requirements. The essential model may itself consist of multiple models, modeling different aspect of the system. The data flow diagrams may model the data and there relationships and the state transition diagram may model time dependent behavior of the system. The essential model thus consists of the following.

XII. CONCLUSION AND FUTURE WORK

This is to conclude that the project that I undertook was worked upon with a sincere effort. Most of the requirements have been fulfilled up to the mark and the requirements which have been remaining, can be completed with a short extension. The project made here is just to ensure that this product could be valid in today real challenging world. Here all the facilities are made and tested. Currently the system works for limited number of administrators to work. In near future it will be extended for many types of insurance policies so that efficiency can be improved..

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