MINI PROJECT

(2020-21)

"Hotel Management Website"

Project Report

Institute of Engineering & Technology

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<u>Declaration</u>

I/we hereby declare that the work which is being presented in the Bachelor of technology. Project **"Hotel Mangement Website"**, in partial fulfillment of the requirements for the award of the *Bachelor of Technology* in Computer Science and Engineering and submitted to the Department of Computer Engineering and Applications of GLA University, Mathura, is an authentic record of my/our own work carried under the supervision of **Mr. Manoj Varshney, Technical Trainer, Dept. of CEA,GLA University.**

The contents of this project report, in full or in parts, have not been submitted to any other Institute or University for the award of any degree.

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<u>Certificate</u>

This is to certify that the project entitled "Hotel Management Website", carried out in Mini Project – I Lab, is a bonafide work by Haziq Samad, Yash Chaurasiya, Kaushal Kumar Rai, Gaurav Kushwaha and Ghanshyam bansal and is submitted in partial fulfillment of the requirements for the award of the degree Bachelor of Technology (ComputerScience & Engineering).

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ACKNOWLEDGEMENT

Presenting the ascribed project paper report in this very simple and official form, we would like to place my deep gratitude to GLA University for providing us the instructor Mr Manoj Varshney, our technical trainer and supervisor.

He has been helping us since Day 1 in this project. He provided us with the roadmap, the basic guidelines explaining on how to work on the project. He has been conducting regular meeting to check the progress of the project and providing us with the resources related to the project. Without his help, we wouldn't have been able to complete this project.

And at last but not the least we would like to thank our dear parents for helping us to grab this opportunity to get trained and also my colleagues who helped me find resources during the training.

Thanking You

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ABSTRACT

This project aims at creating on Hotel Management System which can be used by Admin and Customers. The admin to advise/publish the availability of rooms in different hotels and customers are checking the availability of room in required hotel. Customers should be able to know the availability of the rooms on a particular date to reserve in hotel. They should be able to reserve the available rooms according to their need in advance to make their stay comfortable. The Admin hands the booking information of customers. The users can register and log into the system. The administrator will know the details of reservation and daily income. The hotel department maintains the seat availability and booking details in certain database. This project provides high security to Admin and user information.

The main objective of this project is to design a hotel management system for running a hotel business. The system should be as flexible as possible so that it can be used for different hotels. You have to find out which procedures hotels have used for different hotels. You have to find out which procedures hotels have and based on that information, you should create a system which makes it efficient. You need to find out how a hotel system works on the internet, use your own experience or directly talk to people in the hotel business. The more diverse the sources of your information are, the better will be the resulting system and, possibly, your grade.

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CHAPTER-1

INTRODUCTION

CONTEXT

This Web Application "HOTEL MANAGEMENT WEBSITE" has been submitted in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Computer Science and Engineering at GLA University, Mathura supervised by Mr. Mandeep Singh. This project has been completed approximately three months and has been executed in modules, meetings have been organized to check the progress of the work and for instructions and guidelines.

MOTIVATION

As we know the importance of website in business fields and in fields like hotel it's more important to a website of a hotel so we can manage thinks very easily and without any losses and save money and manpower by having a website both hotel and costumer have advantages hotel can easily manage thinks and a costumer can easily looks and check the property and easily book services without any of in convinces and it helps hotel to reach more people and spread its business easily and by this web application we can replace traditional system of manages thinks of paper and because of website data will be more secure and safe. And as more and more people are on internet its will give an edge to hotel owners to have more business.

OBJECTIVE

The main objective of the hotel Organization could be improved by integrating service-oriented operation with project management principles. Such integration would instill innovation, proactive attitudes and regulated risk-taking needed to pursue ongoing improvement and proactive response to change. By managing each change as a project, embedded in smoothly running operation, hotels would extend their life span by continuously reinventing themselves. Due to which the customers can easily book the hotels rooms.

EXISTING SYSTEM

Currently in hotel all the work done manually. When a guest make a reservation, all the reservation details (including guest details) are recorded in a hotel register. At the time of checkout of customer, calculations of bills and inventory items are done manually too. Doing all the work manually and storing information on register takes much time and wastes much precious man hours. Manually calculation of bill is also error prone. If management want any old information like room record or reservation details then finding old records is very tiresome task and it takes a lot of time to find records form old files.

Following are the main problem in managing hotel manually

- Manually keeping records is very time consuming.

- Data is not always reliable as it is hand written and some human errors might have occurred example wrong telephone number among other.

- Slow process of reservation. User has found manually whether room is available or not.

- Hotel information data are not secured. It can be easily theft or altered.

- Finding records are very time consuming.

- Retrieval of guest records is extremely difficult. User has to manually search each records to find the required information. It takes lot of time.

SOURCES

The source of the project (including all the project work, documentations and presentations) will is available at the following link.

https://github.com/yash12569/MiniProject

CHAPTER -2

SOFTWARE REQUIREMENT ANALYSIS

ABOUT THE PROJECT

This project is designed to create a platform that allows both the user and administrator to keep track of transactions like room reservations, room booking, online reservation and other day to day activities involved in the running and management of a hotel. The implementation is based on the requirements for a hotel management system. This project accomplished the task of building a system that ensures accurate record maintenance which was done through proper identification of customers and the proper designation of user functions with most of the processes being done automatically. The project was designed with the use of Microsoft visual Studio which is an integrated development environment made by Microsoft. It can be used to develop console and graphical user interface applications along with windows form application websites. The database system was created using Microsoft SQL server (MySQL).

PROBLEM STATEMENT

The problems faced by the existing system and hope to be solved by the Hotel Management System are described below:

- Difficulty in maintenance of records
- Time consuming
- Editing of data becomes a tedious job
- No security of data
- Mistakes occurring in Calculation of funds
- Lack of efficiency
- Data redundancy
- Data inconsistency
- Incidence of Fraud

HARDWARE AND SOFTWARE REQUIREMENTS

Hardware Requirement

- Processor : Intel i3

- Operating System : Any Operating System

- RAM : 4 GB (or higher)

- Hard disk : 64GB

Software Requirement

- Software used: VS code, XAMPP

- Language used : HTML, CSS, JS, PHP

- Database: MySQL

- Browser: Google Chrome

MODULES AND FUNCTIONALITIES

- **Home**: The first come in front of user in home page which has some into about hotel and include hotel name and also consists of menu tab.

- **Login:** This is page is solely designed for the new users of the app who are willing to register themselves. This page takes input of the various details of the user and stores it in the database, later helping the user to login into the account with credentials they have provided.

- **Forget Password Page:** This page comes into picture when one of the user forgets the login credentials. In this case this page asks for the email-id with which the user has already registered. The app will check if there is any entry in its database with the id and if there a mail will be sent to the same id for recovering the credentials and notification will be given to the user.

- **Navigation Drawer**: This is the most important part of the application that provides interactivity within the app as it connects the various activities together like it is a side bar on which the profile, the dashboard, the favorites section, the FAQ section ,the About page of the page are linked and on clicking on each you can visit the pages.

- **Dashboard Page:** This is the page displayed for every user after entering the app successfully. It contains the search bar where the user can search the book according to the wish as well as some of the books are suggested with the genres recently searched or the most popular one.

- **Profile**: This page will contain all the user details that the user entered while creating the account on the app. The user can update and make changes to all this information as desired.

- **FAQ Pages:** This page contains some of the questions that might arise in the mind of the users while using the app and to answer those, these answers are pre-written.

- **Logout page**: Then is this last panel for the users to sign out from the account. As soon as the users sign out they are brought back to the login page.

CHAPTER- 3

SOFTWARE DESIGN

USE-CASE DIAGRAM:

So the above diagram represents the point of view of the user, the admin and the arrows to each module show the interactivity of the person.

The visitor/user will visited the website and able to interact and user first see the home page

section and then in hone user will see some information about hotel and a menu tab for further

action like services provided by hotel and then rooms and able to see the facilities in room with

amount of room booking and user will able to book room just by clicking on book button take

user to booking page and then user will able to see hotel costumers reviews and then user see

other information of hotel like about hotel social media handles and address and contact

information.

And the second user interact with website is admin we will able to do all the activities that a user

can do and also able to sign up and login into admin portal just by clicking login and sign up

button and able to check all the activities in hotel and admin can edit room information and if

admin forget the password admin able to login by clicking forget password.

DATA FOW DIAGRAM

WEB DEVELOPMENT

Web development refers to the building, creating, and maintaining of websites. It includes aspects such as web design, web publishing, web programming, and database management. It is the creation of an application that works over the internet i.e. websites.

The word Web Development is made up of two words, that is:

Web: It refers to websites, web pages or anything that works over the internet.
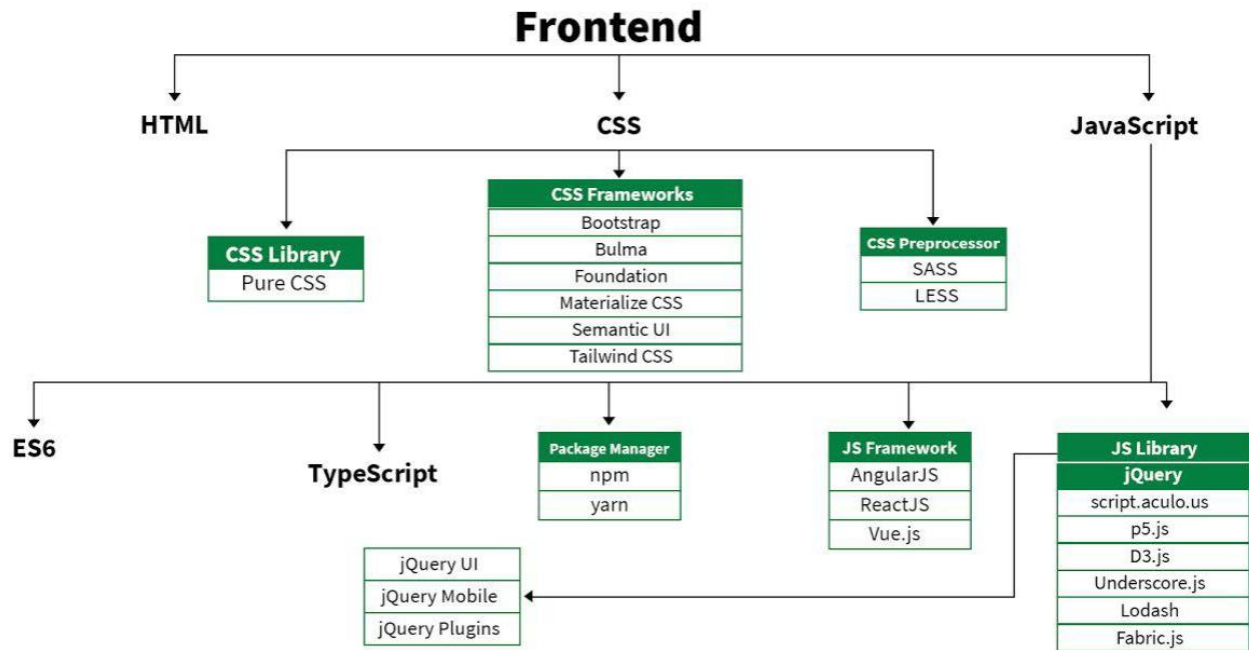
Development: Building the application from scratch.

TYPES OF WEB DEVELOPMET

Web Development can be classified into two ways:
Frontend Development
Backend Development

Frontend Development: The part of a website that the user interacts directly is termed as front end. It is also referred to as the 'client side' of the application.

Frontend Frameworks and Libraries:

AngularJS

React.js

VueJS

jQuery

Bootstrap

Material UI

Tailwind CSS

jQuery UI

Some other libraries and frameworks are: Handlebar.js Backbone.js, Ember.js etc.

Backend Development: Backend is the server side of a website. It is the part of the website that users cannot see and interact. It is the portion of software that does not come in direct contact with the users. It is used to store and arrange data.
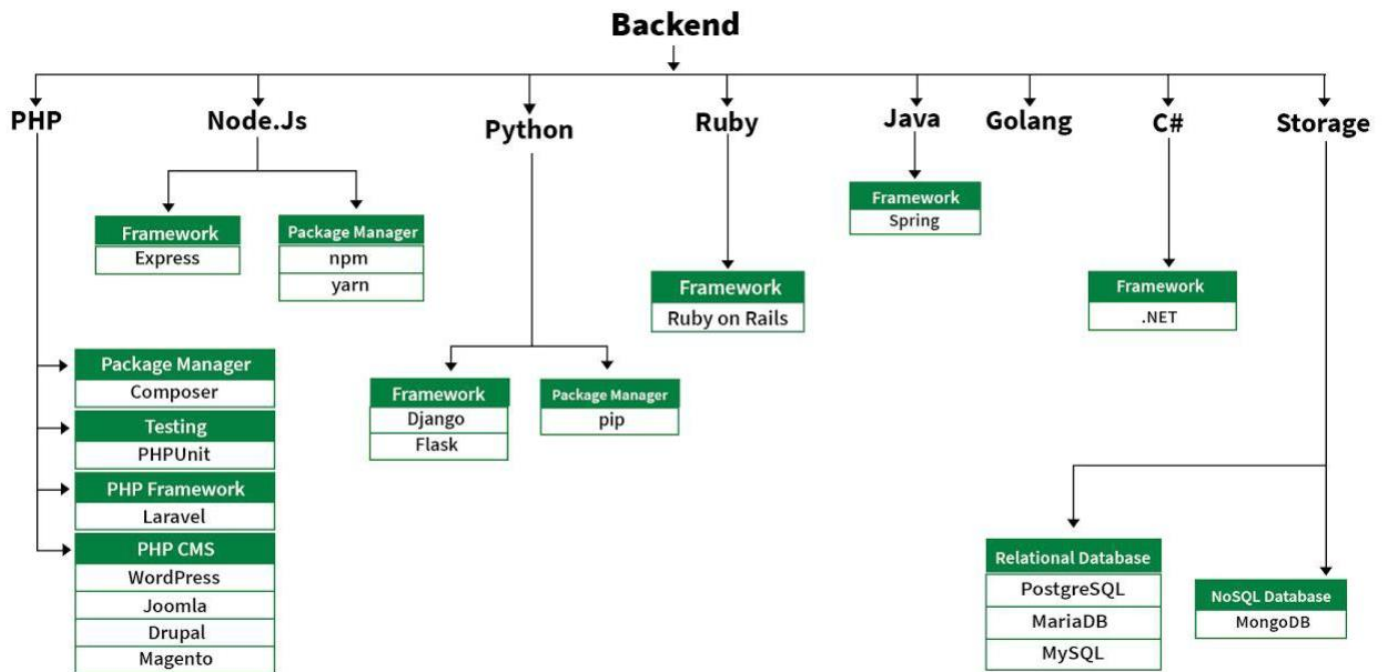
TOOLS AND LANGUAGES

Tools used to build the web development are:-

Visual Studio Code: Visual Studio Code is a source-code editor made by Microsoft for Windows, Linux and macOS. Features include support for debugging, syntax highlighting intelligent code completion, snippets, code refactoring, and embedded Git. Users can change the theme, keyboard shortcuts, preferences, and install extensions that add additional functionality.

Visual Studio Code was first announced on April 29, 2015, by Microsoft at the 2015 Build conference. A preview build was released shortly thereafter.

On November 18, 2015, the source of Visual Studio Code was released under the MIT License, and made available on GitHub. Extension support was also announced. On April 14, 2016, Visual Studio Code graduated from the public preview stage and was released to the Web. Microsoft has released most of Visual Studio Code's source code on GitHub under the permissive MIT License, while the releases by Microsoft are proprietary freeware. In the Stack Overflow 2021 Developer Survey, Visual Studio Code was ranked the most popular developer environment tool, with 70% of 82,000 respondents reporting that they use it.

HTML: HTML stands for Hypertext Markup Language. It is used to design the front end portion of web pages using markup language. It acts as a skeleton for a website since it is used to make the structure of a website.

CSS: Cascading Style Sheets fondly referred to as CSS is a simply designed language intended to simplify the process of making web pages presentable. It is used to style our website.

JavaScript: JavaScript is a scripting language used to provide a dynamic behavior to our website.

PHP: PHP is a server-side scripting language designed specifically for web development.

MySQL: is an open source relational database management system. Its name is a combination of "My" the name of co-founder Michael Widenius's daughter, and "SQL" the abbreviation for Structured Query Language.

CHAPTER -5

IMPLEMENTATION AND USER INTERFACE

The term implementation has different meanings ranging from the conversation of a basic application to a complete replacement of a computer system. The procedures however, are virtually the same. Implementation includes all those activities that take place to convert from old system to new. The new system may be totally new replacing an existing manual or automated system or it may be major modification to an existing system. The method of implementation and time scale to be adopted is found out initially. Proper implementation is essential to provide a reliable system to meet organization requirement.
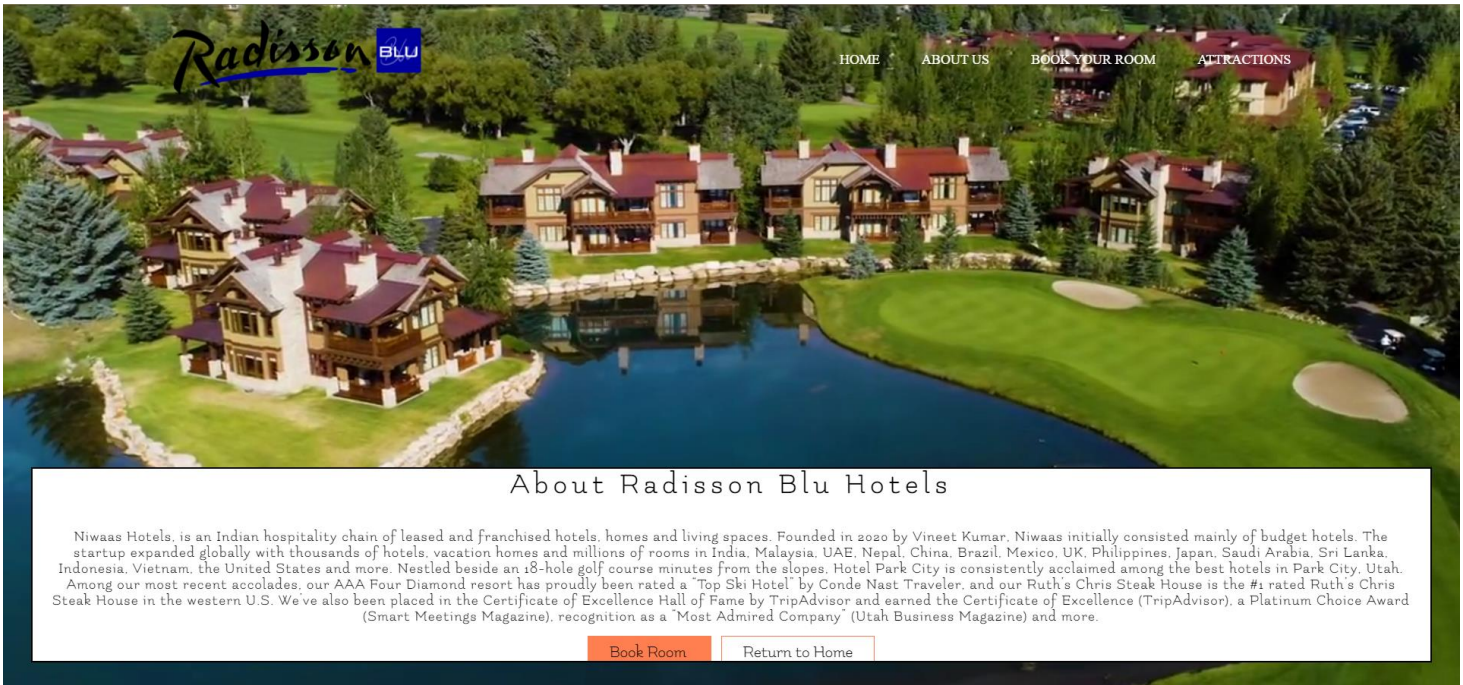
User Interface

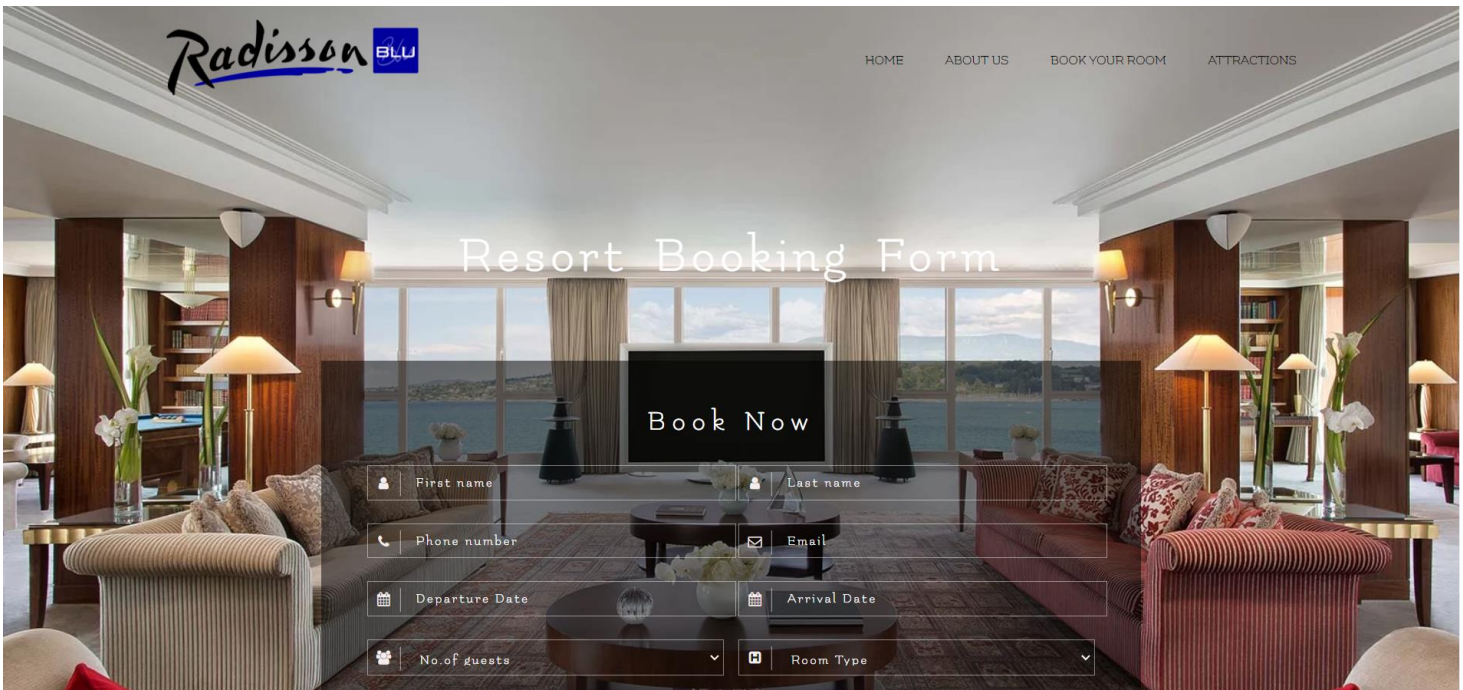- **Home**

- **About Us**

About Radisson Blu Hotels

Niwaas Hotels, is an Indian hospitality chain of leased and franchised hotels, homes and living spaces. Founded in 2020 by Vineet Kumar, Niwaas initially consisted mainly of budget hotels. The startup expanded globally with thousands of hotels, vacation homes and millions of rooms in India, Malaysia, UAE, Nepal, China, Brazil, Mexico, UK, Philippines, Japan, Saudi Arabia, Sri Lanka, Indonesia, Vietnam, the United States and more. Nestled beside an 18-hole golf course minutes from the slopes, Hotel Park City is consistently acclaimed among the best hotels in Park City, Utah. Among our most recent accolades, our AAA Four Diamond resort has proudly been rated a "Top Ski Hotel" by Conde Nast Traveler, and our Ruth's Chris Steak House is the #1 rated Ruth's Chris Steak House in the western U.S. We've also been placed in the Certificate of Excellence Hall of Fame by TripAdvisor and earned the Certificate of Excellence (TripAdvisor), a Platinum Choice Award (Smart Meetings Magazine), recognition as a "Most Admired Company" (Utah Business Magazine) and more.

Book Room | Return to Home

- **Book your room**

- **Attraction**

Feedback form

Feedback Form

First Name

Your name..

Last Name

Your last name..

Phone Number

Phone Number..

Country

Australia

Subject

Write something..

Submit

CHAPTER -7

CONCLUSION

The conclusion of this project is A Hotel management system is a computerized management system. This system keeps the records of hardware assets besides software of this organization. The proposed system will keep a track of Workers, Residents, Accounts and generation of report regarding the present status. This project has GUI based software that will help in storing, updating and retrieving the information through various user-friendly menu-driven modules. The project "Hotel Management System" is aimed to develop to maintain the day-to-day state of admission/Vacation of Residents, List of Workers, payment details etc. Main objective of this project is to provide solution for hotel to manage most there work using computerized process. This software application will help admin to handle customers' information, room allocation details, payment details, billing information.etc. Detailed explanation about modules and design are provided in project documentation. The existing system is a manually maintained system. All the Hotel records are to be maintained for the details of each customer, Fee details, Room Allocation, Attendance etc. All these details are entered and retrieved manually, because of this there are many disadvantages like Time Consuming, updating process, inaccuracy of data. For avoiding this we introduced or proposed a new system in proposed system the computerized version of the existing system. Provides easy and quick access over the data.

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