HOSTEL LIFE

A

Mini-Project Report

Submitted

In Partial Fulfillment of the Requirements for

The Degree of

Bachelor of Technology

In

Computer Science & Engineering

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BABU BANARASI DAS INSTITUTE OF TECHNOLOGY & MANAGEMENT-054, LUCKNOW, INDIA, 2022

CERTIFICATE

This is to certify that **Mr. Rajan Tiwari** (Roll No- 2000540100122) ha**s** carried out the work presented in the report titled **"HOSTEL LIFE"** submitted for partial fulfillment for the award of the **Bachelor of Technology In Computer Science & Engineering** from **BBDITM, Lucknow** under my supervision.

It is also certified that:

(i) This report embodies the original work of the candidate and has not been earlier submitted elsewhere for the award of any degree/diploma/certificate.

(ii) The candidate has worked under my supervision for the prescribed period.

(iii) The report fulfills the requirements of the norms and standards prescribedby the AKTU and BBDITM, Lucknow, India.

(iv) No published work (figure, data, table etc.) has been reproduced in the report without express permission of the copyright owners.

Therefore, I deem this work fit and recommend for submission for the award of the aforesaid degree.

Mr. Anurag Shukla   Dr. Anurag Tiwari

Report Guide   H.O.D.

(Assistant Professor)   Department of CSE,

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BBDITM, Lucknow

Date:15/12/2022

Place: Lucknow

DECLARATION

I hereby declare that the report titled **"HOSTEL LIFE"** is an authentic record of the research work carried out by me under the supervision of Mr**.** Anurag Shukla, Department of Computer Science & Engineering, for the period from October 2022 to December 2022 at BBDITM, Lucknow. No part of this report has been presented elsewhere for any other degree or diploma earlier.

I declare that I have faithfully acknowledged and referred to the works of other researchers wherever their published works have been cited in the report. I further certify that I have not willfully taken other's work, para, text, data, results, tables, figures etc. reported in the journals, books, magazines, reports, report, theses, etc.,or available at websites without their permission, and have not included those in this Bachelor of Technology report citing as my own work.

Signature:

Date: 24/12/2022

NAME: RAJAN TIWARI

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Abstract

As mobile technology & apps are the latest buzzword today, I have developed website named "HOSTEL LIFE". When any person goes to a new city to live as a rental, he/she will get confused. So, this site particularly highlights the many advantages of PG (paying guest). This site offers a flexible room choice to adapt to changing financial circumstances-including the need to relocate quickly. This siteis most commonly useful for the young adults who leave their family homes for studies, jobs, etc. The lower transaction costs and flexibility of renting makes it a natural choice during this stage in life. To help outsiders is the main aim of this application. The website, "HOSTEL LIFE" is an informative application which is providing the information based in various cities. Mainly it will give a list of available rooms for rent in their required budget. This application gives detailed information about all the PGs around different cities and, they are allsorted according to the area, so that search can be made easy. Thus, allowing the users to search it according to their need, there are no specific applications on this domain. But there are static apps which does not give a detailed description about this domain. When the users are viewing the different rooms, instead of directly booking the house they can added to their favorite. And then from this sorted list of houses users can book the house later. This is a project which helps user (student) to search for rooms available inside the various cities It reduces the work load of students to personally go to every room available and match with your requirement.

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Introduction

I developed a web project "**HOSTEL LIFE**" using HTML, CSS, BOOTSTRAP, PHP, and DBMS from **INTERNSHALA** (Duration: 8 weeks). This website has been developed to override the problems prevailing in searching or booking the PG Room for any kind of stay services or room services etc. Moreover, this project is a personal portfolio and an enquiry platform where anyone can visit and enquire regarding any info about the Hostels and PG Room facilities across all over India. In this project, only the main activities are performed in a HOSTEL LIFE, but atmost care has been taken to make the system efficient and user friendly. "HOSTEL LIFE" has been designed to computerized the following functions that are performed by the system:

FEATURES: -

- Room Detail Functions like Opening a New Room
- Modification to room assigned and Check-in and check-out Detail Functions
- Admission of New customer and Check-out of customer
- Room assigning related to customer's need.
- Statement of Customer Details Check-in customer
- Total number of Customers in the PG Room Individual customer Report

TOOLS AND TECHNOLOGY USED:

VS Code: I have used Microsoft Visual Studio Code for code editing and writing.

XAMPP: I have used XAMPP for creating the backend using phpMyAdmin.

Field Of Project: This project is mainly used for connecting with other peoplewhosoever is interested to enquire (book) for a PG Room. This website is so simple and easy to use, so that everyone can use it without any problem.

➤ **HTML: -**

The Hypertext Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.[3]

➤ **CSS (Cascading Style sheets):**-

CSS (Cascading Style Sheets) is used to style and layout web pages for example, to alter the font, colour, size, and spacing of your content, split it into multiple columns, or add animations and other decorative features.. A style sheet consists of a list of rules. Each rule or rule-set consists of one or more selectors, and a declaration block.[3]

➤ **JavaScript: -**

JavaScript is a high-level, often just-in-time compiled language that conforms to the ECMAScript standard. It has dynamic typing, prototype-based object-orientation, and first-class functions. It is multi-paradigm, supporting event-driven, functional, and imperative programming styles. It has application programming interfaces for working with text, dates, regular expressions, standard data structures, and the Document Object Model (DOM).[3]

➢ Bootstrap: -

Bootstrap is an HTML, CSS and JS library that focuses on simplifying the development of informative web pages (as opposed to web applications). The primary purpose of adding it to a web project is to apply Bootstrap's choices of colour, size, font and layout to that project. As such, the primary factor is whether the developers in charge find those choices to their liking.[4]

➢ DBMS: -

The database is a collection of inter-related data which is used to retrieve, insert and delete the data efficiently. It is also used to organize the data in the form of a table, schema, views, and reports, etc.[3]

➢ PHP: -

PHP is an open-source, interpreted, and object-oriented scripting language that can be executed at the server-side. PHP is well suited for web development. Therefore, it is used to develop web applications (an application that executes on the server and generates the dynamic page.).[3]

➢ REACT: -

React is a declarative, efficient, and flexible JavaScript library for building reusable UI components. It is an open-source, component-based front-end library which is responsible only for the view layer of the application. It was initially developed and maintained by Facebook and later used in its products like WhatsApp & Instagram.[3]

The project also consists of various information about the hostels and PGs in many cities with including facilities. The owners can advertise their hostels and PGs by this project and can set their prices for the customers. Once the admin of the project verifies and authenticates the details of the hostels and PGs, He will add the details to the websites and their users or customers can choose according to their choice.

Literature Survey

Existing Projects:

The existing system is a manually maintained system. All the hostel student details are entered into records manually. Separate records are to be maintained for the details of each student, fee details, room allocation, attendance etc. All these details are entered and retrieved manually.[1]

We have researched on many software in internet, related our field and we have found that database management system is less used for hostel management but it is used in other fields. Most of them were web-based. System like library management, hospital management, student management etc are used a lot.[1]

In library Management System, Systems are used to manages the catalogue of a library. This helps to keep the records of whole transactions of the books available in the library. in this system we found many admin panels those who were library staffs.

In Hospital Management System, system tracks its day-to-day activities and records of its patients, doctors, nurses, and other staff personals that keep the hospital running smoothly and successfully[1].

Description of our project:

A HOSTEL LIFE is hostel and room management used for maintaining the hostel records of students or users. This solution has been specially designed to cater to the requirements of different departments of hostels. It is well equipped with various interactive features that are simple for anyone to use.

HOSTEL LIFE has been designed in such a way that they automate and efficiently manage the whole process of gaining admission into hostels. Hostel management solutions gather user information from the registration process and check for room availability. It is mandatory for users to input all information into the hostel management software for the process to offer quick results.

Through this you can check the personal profile of all the current customer within a few minutes the database of the system will help youto check a particular one.[6]

This website improved the accuracy and efficiency of rooms as well as human errors. Problems of finding rooms and PGs are solved by this system and it requires a onetime investment for gadgets.

The system will help you to check the bills of every customer and the customer PG Room dues. The customer of the PG Room will be recognized from theroom number allocated at the room rental time. In the last this system will improve the management work in the PG Room.[6]

<u>Objective</u>

During the past several decades personal function has been transformed from a relatively obscure record keeping staff to central and top-level management function. There are many factors that have influenced this transformation like technological advances, professionalism, and general recognition of human beings as most important resources.

- A computer-based management system is designed to handle all the primary information required to calculate monthly statements. Separate database is maintained to handle all the details required for the correct statement calculation and generation.[2]

- This project intends to introduce more user friendliness in the various activities such as record updation, maintenance, and searching. The searching of record has been made quite simple as all the details of the customer can be obtained by simply keying in the identification of that customer.

- Similarly, record maintenance and updation can also be accomplished by using the identification of the customer with all the details being automatically generated. These details are also being promptly automatically updated in the master file thus keeping the record up-to-date.[2] The main objective of the entire activity is to automate the process of day to day activities of PG Room like:
  1. Room activities,
  2. Admission of a New Customer,
  3. Assign a room according to customer's demand,
  4. Finally compute the bill etc.
  5. Packages available.
  6. Advance online bookings.
  7. Online Cancellation.
  8. Email facility.
  9. Feedback

<u>Benefits and scope of Project</u> :

We have designed this HOSTEL LIFE to automate the process of PG Rooms. This project is useful for the authorities which keep track of all the users registered in a particular state. The authority can add PG Room packages, room details, availability of rooms, online booking etc., and also for customers for booking of the rooms.[1] The following steps that give the detailed information of the need of proposed system are:

- **Performance:** During past several decades, the records are supposed to be manually handled for all activities. The manual handling of the record is time consuming and highly prone to error. To improve the performance of the HOSTEL LIFE, the computerized system is to be undertaken. This project is fully computerized and user friendly even that any of the members can see the report and status of the company.

- **Efficiency:** The basic need of this website is efficiency. The website should be efficient so that whenever a new user submits his/her details the website is updated automatically. This record will be useful for other users instantly.

- **Control:** The complete control of the project is under the hands of authorized person who has the password to access this project and illegal access is not supposed to deal with. All the control is under the administrator and the other members have the rights to just see the records not to change any transaction orentry.

- **Security:** Security is the main criteria for the proposed system. Since illegalaccess may corrupt the database. So, security has to be given in this project.

  To summarize, the Benefits of Hostel Life are:

  - It is less time and effort consuming.
  - It makes the process of updating the data is fast.
  - It automates mundane tasks.
  - It secures the data of the students.
  - It reduces the manual work of management.
  - It enhances the reputation of the educational institute

Data Flow Diagram

A Data Flow Diagram (DFD) is a graphical representation of the "flow" of data through an Information System. A data flow diagram can also be used for the visualization of Data Processing. It is common practice for a designer to draw a context-level DFD first which shows the interaction.[2]
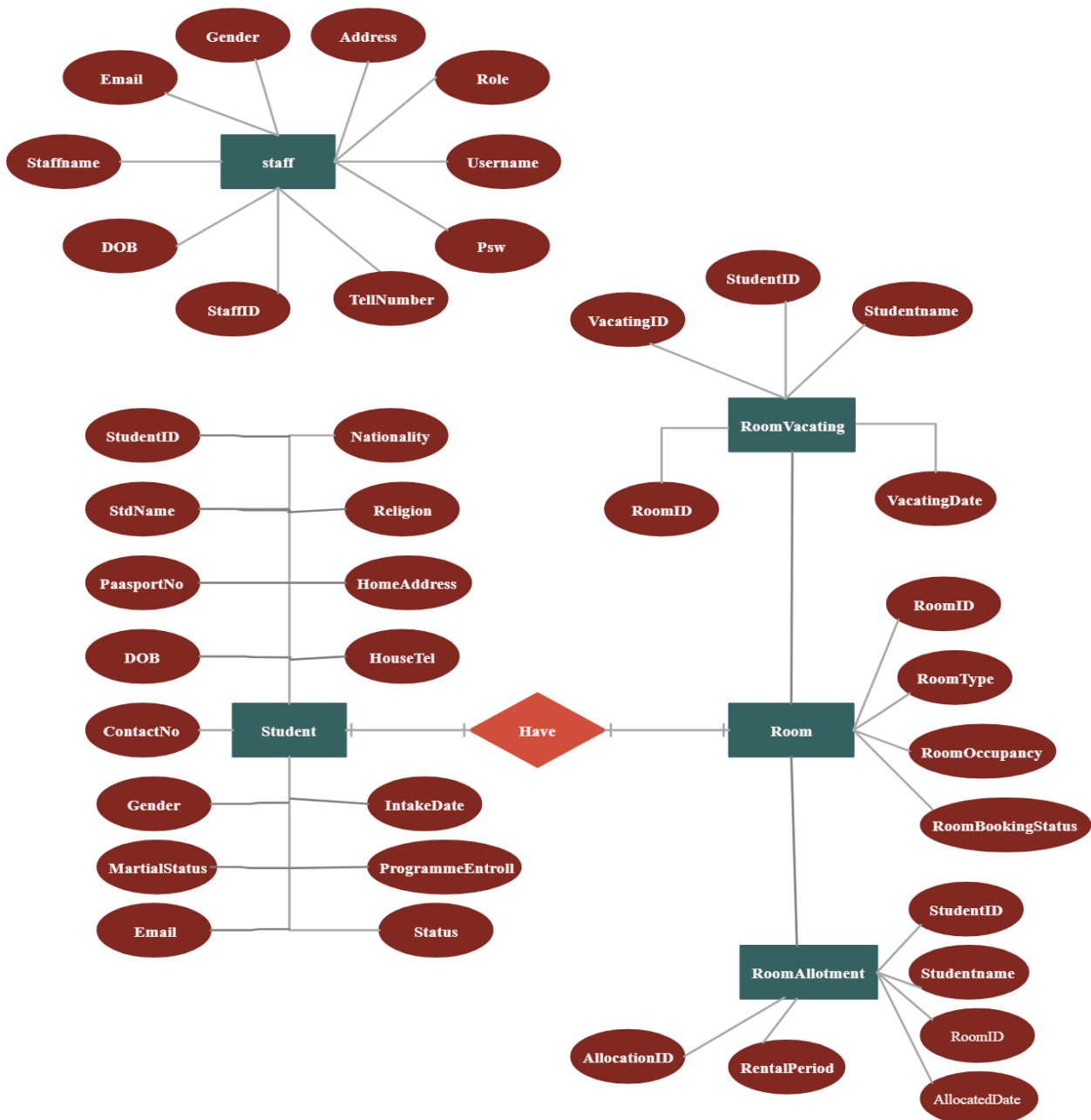

Fig 1.flow diagram for information representation.[3]

Facilities required for proposed work

Hardware Required:

Minimum: - 4 GB RAM

 2 GB Free Hard Disk Space

Recommended: - 16 GB RAM

20 GB Free Hard Disk Space

Software Required:

➢ Operating System: Windows 11

➢ Application Server: XAMPP.

➢ Web designing languages: HTML, CSS.

➢ Scripts: JavaScript.

➢ Server-side Script: PHP.

➢ IDE: VS Code.

➢ Database: MySQL

➢ Database Connectivity: PhpMyAdmin

Conclusion

HOSTEL LIFE is a Customize and user-friendly website for PG Room. It has been designed to automate, manage, and look after the over- all processing of even very large PG Room. It can manage Enquiry details, Customer Details, Payment Details etc. HOSTEL LIFE is a Customized and user-friendly website for PG Room which provide information about the PG Room rooms and services.

It provides the facility of online PG Room booking and room enquiryfrom its website.

HOSTEL LIFE is offering a maximum of stability, cost-effectiveness, and usability. It provides the most flexible andadaptable standards management system solutions for PG Room.

The decisions on how the website will be build depend on the results of the problem investigation stage, since they will play a major role into describing the specific user requirements for the software.

- In computer system the person has to fill the various forms & number of copies of the forms can be easily generated at a time.
- In computer system, it is not necessary to create the manifest but we can directly print it, which saves our time.
- To assist the staff in capturing the effort spent on their respective working areas.
- To utilize resources in an efficient manner by increasing their productivity through automation.
- The system generates types of information that can be used for various purposes.

Future Scope and Enhancement of Project

This project "HOSTEL LIFE" can be used in the PG Room after adding some more useful modules in the project for which the PG Room is providing services. Utmost care and back-up procedures must be established to ensure 100% successful implementation of the computerized PG Room system.In case of system failure, the organization should be able to process the transaction with another organization or if the worst comes to the worst, itshould be able to complete it manually.[5]

The "HOSTEL LIFE" helps the user to read the place of their choice at any time anywhere, by just open the place of their taste on the "HOSTEL LIFE".it may help in getting got recommendation of places of their choice. In a very short time, the collection will be obvious, simple, and sensible.

Web development is referred to the tasks which it is associated with the developing websites for hosting through the internet or else intranet. This process includes web content development, web design, both client server-side scripting and also networking courses configuration which it is among the other tasks

It will help a person to get the place they want to go and enjoy and improve their overall personality and make life joyful. It will also reduce the cost of booking every place in physical form.

On the "HOSTEL LIFE" you can book the rooms on your phone without ordering it physical. So, will get the hotel and places of your choice instantly without waiting it to be manually on your home, you can start journey by what time you want.In future we will try to partner with more well-known website and companies to provide the online booking of your choice at further low cost

<u>References</u>

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