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Hostel Management System for Efficient Maintenance of Records

Dr. Nanditha B R[1], Ganavi M[2], Vagdevi C M[3], Pushpa Magadum[4]

Assistant Professor, Department of Info.Science and Engg, Malnad College of Engineering, Hassan, India

UG Student, Department of Info.Science and Engg, Malnad College of Engineering, Hassan, India

UG Student, Department of Info.Science and Engg, Malnad College of Engineering, Hassan, India

UG Student, Department of Info.Science and Engg, Malnad College of Engineering, Hassan, India

ABSTRACT: HMS is an application developed for managing the hostel efficiently. Now a days, the wide variety of instructional establishments is growing swiftly so there is need proper management for lodging of college students to the hostel. And for this reason, there might be lot of stress on the person those who are running the hostel and software program aren't used on this context. It deals with the issues that occur while managing a hostel and avoids those issues which arise while done manually.

KEYWORDS: Hostel, admin, student, room allotment, leave approval.

I. INTRODUCTION

In the present world, with it being hardware or software, it is not advisable to use manual process. From the process of enrollment verification to different facts saving techniques are performed manually and maximum times, they are written on paper. Thus, number of repetitions may be averted with an automated application. Identification of the drawbacks of the current process has brought about the layout of automated application on the way to be well matched to current process with the application that is user friendly and more GUI based.

HMS is designed in prefer of the hostel management which helps them to save the personal information of the students, about their rooms and other information. HMS facilitates them from the manual work which is miles very hard to discover the document of the students. This application gives details about the student, room allocation, and complaints are maintained in higher manner. Also provide the details regarding the fees and also provide option to apply for the leave. HMS also has an administrator module which will be accessed by the admin that is warden and he have the option to delete, add and edit student records. HMS also comprise unique features like what number of college students are in a room, student's identity number and rooms available. Hence, HMS would be useful in managing all crisis of the hostel.

II. PROBLEM STATEMENT

HMS is aimed towards developing an application for maintaining facts and displaying data of hostel. It will help the hostel officer with a purpose to manipulate the affairs of the hostel. It will provide the complete data about a student in hostel.

III. LITERATURE SURVEY

The current process is handwork, requires lot of effort and more time consuming. In the present process application form is given withinside the hostel itself and the allotment techniques are performed manually. The limitation of current process is it calls for extra human power, repetition of identical procedure, less security, problem to handle, problem to renew data, document maintenance is hard, difficulty in generating backup data information.
HMS is an application developed to offer university college students lodging to the hostel extra efficiently. This application additionally continues to have information of hostellers and enrolled college students and headed by warden. He could be the admin. This application is supposed to decrease human works and make hostel allocation a less complicated activity for college students and hostel administration via way of means of imparting allocation of rooms, leave of absence, grievance box, appraisals. Students get approval via way of means of admin for leave request. Hosteller can view appraisals, hostel payments, leave apply and mess menu just by login into HMS. There are a number of drawbacks in maintaining and preserving a hostel, specifically with a manual process. Since maximum number of

hostel is being run by single person, the wide variety of college students in a room are every now and then are no longer recognized by warden. Sometimes students can owe withinside the hostel, and they're stored on papers or large notebooks, and every now and then receipts. If the books ought to move lacking or stolen, one might not be capable of recognizing if a student is owing or not. Room allocation additionally will become a trouble because the officer may not recognize which rooms are empty or filled. This may also provide details of hostellers who've paid in complete or nonetheless owe. Also have incorporated the student module for students. There is also an administrator module which would be accessed via admin, and he/she will be able to delete, upload, and edit student details.

IV. PROPOSED SYSTEM

This system is developed for maintaining the facts and displaying the data approximately or in hostel and also students. It includes modules such as admin module, student module, room allocation module and many more. Admin Module facilitates the admin to login to homepage if password and username matches. Admin can add a new student, view student detail and also can search for the student using name, course, room number. Student module facilitates the student to view information like student profile, phone number, mail id, educational information and can register complaints and leave request to the warden. Room allotment module is used for allotting room to college students and additionally save educational details. Rooms could be allotted to hostel enrolled students and an unique ID could be generated for it. It will show details of students staying withinside the room. Room Bills module displays information about fees details, hostel remittance and balance due. Leave module, college students will request for the leave and admin can approve or decline the request. Complaint module, notices can be issued to hostellers and student may also give their grievances to the admin.
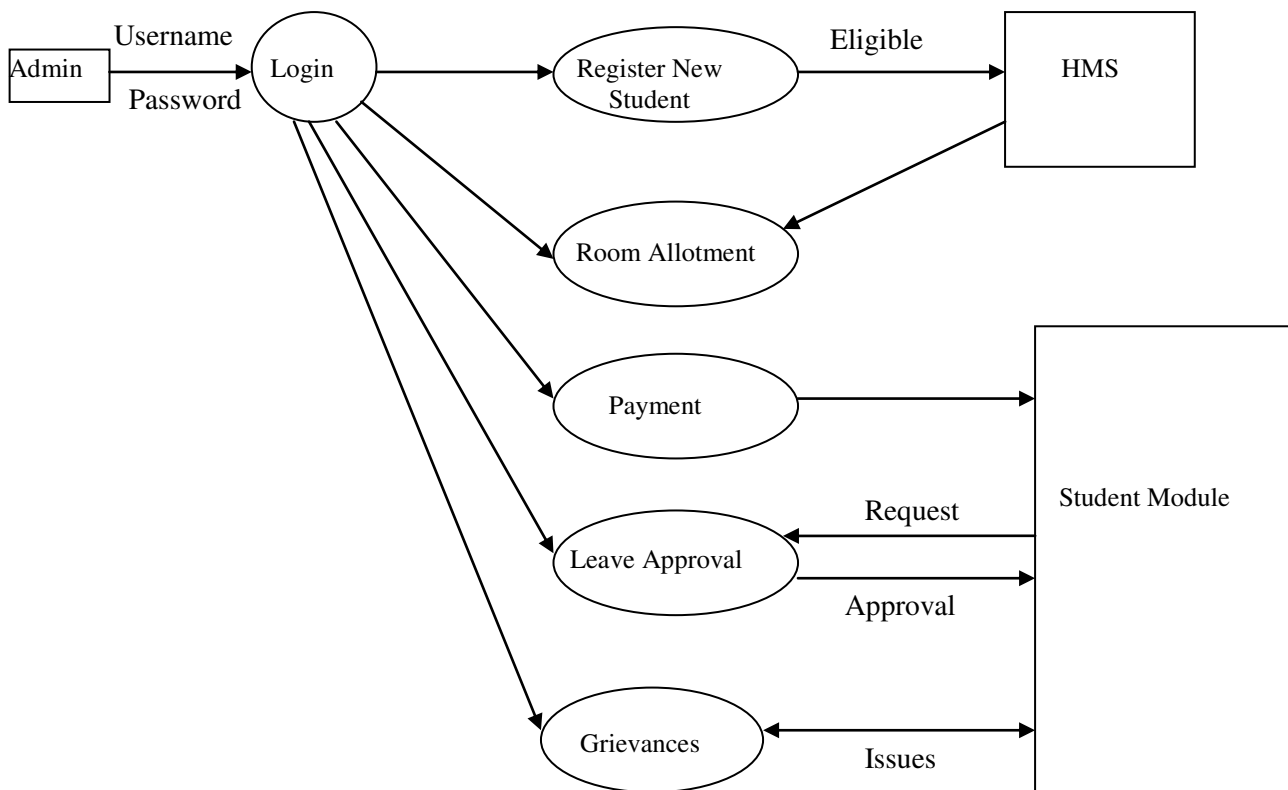
V. IMPLEMENTATION

ADMIN MODULE

Fig: Dataflow Diagram For Admin Module

In case of admin login, a unique ID and password would be present if the admin uses those credentials, then login page opens, and he has the option of forget password and could change password when required. Once warden login to the system, he could be add new student, view all student details, payment details, allot rooms to students, view leave

applications and grievances. Admin has the option to add, edit or delete the information of or about students.
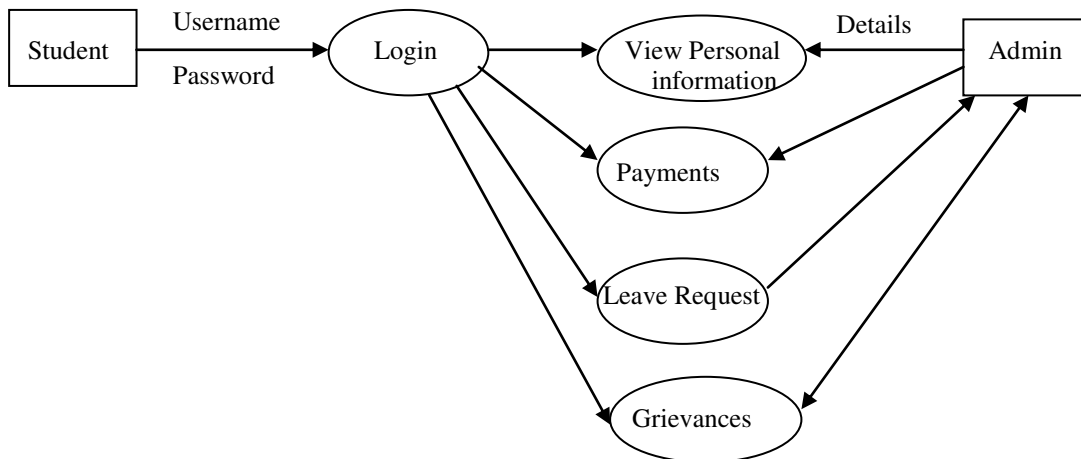
STUDENT MODULE

Fig: Dataflow Diagram For Student Module

In student login, student could login to developed application only if he is registered in hostel and at the time of registration a unique student id would be provided to students that would be the password and username would be registered email address. Once logged in then he/she could be able to view their profile, due balance, mess menus, apply for leave, could be able to see allotted room, send grievances. Here student has no option to add, edit or delete any of the options.

HARDWARE REQUIREMENTS

Processor: Intel Core i5
RAM: 1GBormore
Hard disc :80GB or more
Laptop/Pc and Mobile for android and web application development

SOFTWARE REQUIREMENTS

Languages used: PHP, XAMPP, JavaScript, CSS, jQuery.
Software: Visual Studio, Android Studio
Database: MySQL server.
User Interface: Apache server, HTML
Web Browser: Google chrome, Opera, Mozilla Firefox, Edge Explorer.
Operating System: Windows10 and more.

VI. FUTURE WORK

This project is completed for web and android application which helps in room allotment, leave application, adding grievances. In upcoming days, it could be implemented for taking attendance in online itself by tracking the live location of students to check whether they are present in hostel or not.

VII. CONCLUSION

This project is developed in favor of hostel administration that would be very helpful in managing the hostel administration effectively. This application is reliable, secured and portable. It provides user friendly interface and all updated information about students. Henceforth, it eliminates unnecessary obligations and reduces or even avoids

paperwork. It deals with managing hostel affairs and avoids inaccuracy which arise whilst done manually. Managing the hostel is a difficult task that requires lot of supervision and time consuming. HMS is a dynamic in addition to realistic technique as it makes managing the boarding and other related facilities plenty less difficult. One of the important benefits is, it reduces obligation on the management team as it simplifies obligations, as most of the manual tasks or paperwork may be completed via online system. Managing a hostel could be hard task but with the help of HMS, it is miles now less difficult than ever earlier than to manipulate a hostel in an efficient manner.

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📱 9940 572 462   💬 6381 907 438   ✉ ijircce@gmail.com

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