CLOUD BASED COLLEGE INFORMATION MANAGEMENT SYSTEM

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ABSTRACT

Nowadays, the maximum number of colleges are still using manual procedures for recording students and staff details. At the end of each month/session, the organization struggles to manage data of every student and staff which is a time taking process and there are chances of losing data and errors in the records. For example, a student has to spend half of class hours taking leave for it.But in our Cloud Based College Information Management system, the organization enters information like attendance, leave form, academic details and transport details for students, professors and other faculty members in the cloud. For example, in this web application students can take their leave in a very short time without any difficulties. And also, institutions can easily make profiles for students and tutors. So, students can easily access their details in their profile. Therefore, our system reduces the time and effort of an organization as well as helping to avoid errors in the record.

I. INTRODUCTION

The impact of computers on our lives today is probably much more than we are known to. Getting useful information and transforming it quickly into products than consumers want to buy is the essential key to staying in business and this all is done nowadays using Computers and Application Software.The modern world depends on the cloud computing. Cloud computing is the OnDemand availability of computer system resources, especially data storage (cloud storage) and computing power, without direct active management by the user. Large clouds often have functions distributed over multiple locations, each location being a data center. Cloud computing relies on sharing of resources to achieve coherence and typically uses a "pay as you go" model which can help in reducing capital expenses but may also lead to unexpected operating expenses for unaware users. It is the delivery of computing services— including servers, storage, databases, networking, software, analytics, and intelligence—over the Internet ("the cloud") to offer faster innovation,flexible,resources,and economies of scale. Cloud computing offers modern businesses flexibility,efficiency,scalability,securi ty, increased collaboration and reduced costs. The Cloud Based College Information management system is a system which will be used to implement in the institutes, where it becomes easy for the student and faculties to apply leave &checking attendance details and other academic details. It also includes transport details for both students and faculties of the institution. This cloud system is a platform tha7t enables the admin of an institution to easily update and access the students, professor and other staff details.

II. Methodology

Design is the first step in the development phase for any engineered product or system. The designer's goal is to produce a model or representation of an entity that will later be built. Beginning once system requirements have been specified and analyzed, system design is the first of the three technical activities – design, code and test that is needed to build and verify software.The cloud system includes Data for everyone in department like HOD,Professors,Other faculties,Tutors,Representative and students. The details are leave form and attendance, academic details and transport for everyone. This cloud system includes login profile for HOD,professors,tutors,representative,students, transport officer. In this cloud system the first step is, After the HOD login,HOD have the access to add tutors and professors considering the details specified, he can accept or reject the leave application thereby resulting in the update of leave status of professors. The HOD is also authorized to view reports updated by the office assistant. HOD can also use the services of this application to track and

cancel a leave application. The HOD's access control is only for professors. Professors have a access of considering the details specified, he can view the attendance and academic performance of the students and he can also able to verify the confirmation letter given by students. Tutor is one of professors so there is no need for access by HOD.After the Tudor's Login, they add representative and student. By considering the details specified, he can view the attendance and academic performance of the students and he can also able to verify the confirmation letter submitted by students. Then representatives have access to update attendance for students on a daily basis. After student login, they have the access to request permission for leave, view their attendance, leave details. Also view their academic details. Academic details include every semester internal mark and semester marks. Every mark details so far will be recorded here and will never be deleted like university portals. All of the above processes are as interrelated as the chain pattern between HOD&professor and Tutors,representative&students. The following method describes a leave form for both students and staff. Initially the super admin (HOD) gives the login credentials to all the faculties and tutors, later the faculties can reset their password.HOD has the authority to add a new faculty&tutor or delete an existing faculty. The faculty then logs into the leave portal, as soon as he logins in the information about the faculty will be stored in the database. The faculty applies for the leave. The faculties will get the notification regarding whether their leave has been approved or rejected by the HOD. The user then logs into his profile which is known as the login page available for all staff members in which each staff member can either update profile, view profile, apply leave or view the history of leaves taken. Once the leave has been applied it will be forwarded to the HOD. The HOD can either approve or reject a leave. If the leave is either accepted or rejected by the HOD, a notification will be received by faculties indicating acceptance or rejection of leave.

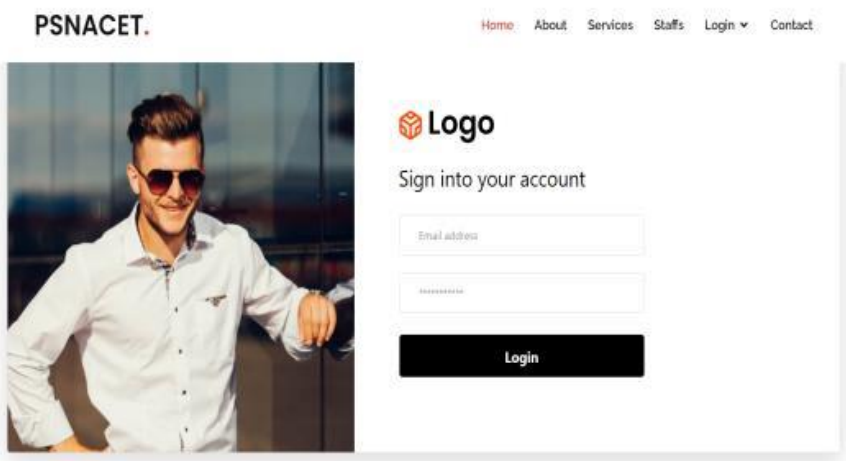
III. Modelling And Analysis

Professor Login:

In this module the Professor has access to view their attendance and leave details. By considering the details specified, he can view the attendance and academic performance of the students and he can also able to verify the confirmation letter submitted by students.

Tutor Login:

In this module the Tutor has access to add students and representatives. By considering the details specified, he can accept or reject the leave application thereby resulting in the update of leave status. The Tutor is also authorized to update the monthly reports to HOD. Tutors can also utilize the services of this application to track and cancel a leave application.



Student Login:

In this module the student has the access to request permission for leave, view their attendance, leave details and academic details.

Transport Login:

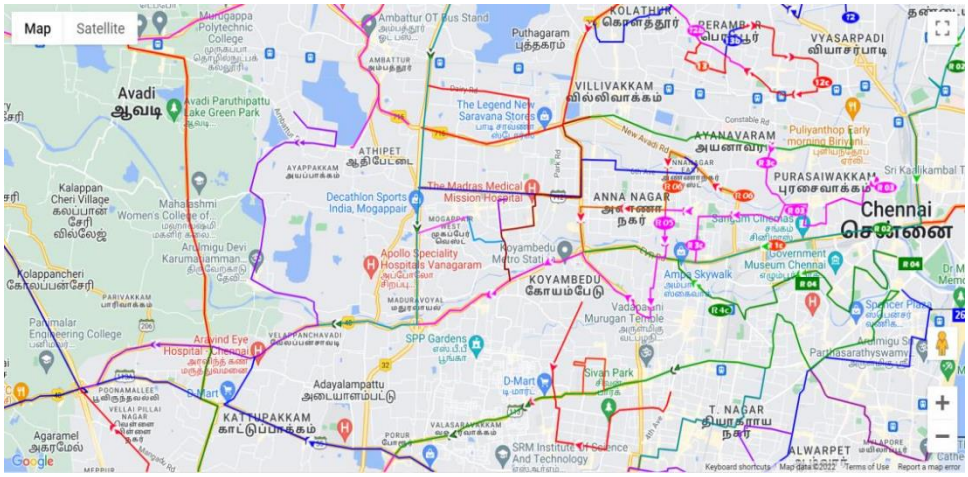
In this module the Transport Admin have access to add bus route and timing details. By considering the details specified, All the institution members can view their bus details and its timing.

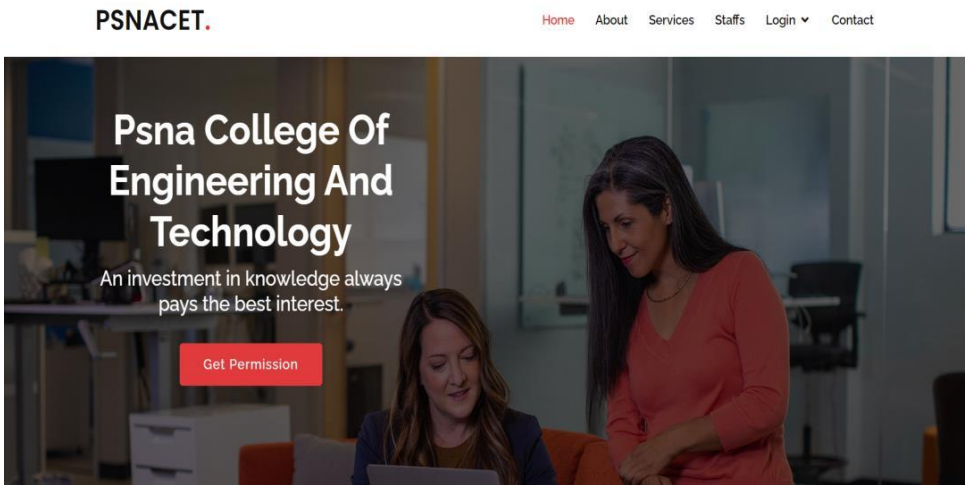
Representative Login:

In this module the Representative has access to update attendance for students on a daily basis. Employee record and welfare management in a higher institution. The developed system enables the employees in academic institutions to request and

IV. RESULT

This system serves as improvement in staff management, maintain accuracy, transparency and highlights the need to integrate advanced technology in track their leave at their own convenient time in timely manner.





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