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COLLEGE MANAGEMENT SYSTEM

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ABSTRACT

The College Management System is an Web-based application that represents a new technical way to manage all department-related work. A smart college management system is useful for both students and colleges. On existing systems, all activities are performed manually. It is very expensive and time-consuming. The proposed system allows students to view the results using an Android phone. The data is stored on the university server. Save the data using SQL Server. An administrator, faculty member, or student must be a registered user. Faculty members can log in to their university account via the app and update their academic performance, including student internal exam grades. This system gives students easy access to view their grades. The application validates user authentication. Students are not allowed to manipulate the data. The proposed work has two modules: A. Student B. Teacher C. Administrator.

Keywords - College Management System, Administrator, Faculty Module, Student Module, login, Registration, Attendance, etc.

1. INTRODUCTION

All data is stored securely on SQL servers managed by the college Administrator. This system will decrease the paperwork and time needed to access student records. Previously, the college relied heavily on paper records for this initiative which had it's own disadvantages. This system provides a simple interface for the maintenance of student information. It can be used by educational institutes or colleges to maintain the records of students easily. This system is designed and implemented to serve institutions and universities. The system provides a comprehensive student information system and user interface and should replace the old paper files. University staff upload attendance, scores, topic notes, and university notifications via a secure online interface using an Android device. All data is stored on the Collage server and validated on the server before the actual record changes occur. This system provides a student interface that gives students access to tips and tricks provided by their boss. All data is stored securely on SQL servers managed by the college Administrator. This system will decrease the paperwork and time needed to access student records. Previously, the college relied heavily on paper records for this initiative which had its own disadvantages. This system provides a simple interface for the maintenance of student information. It can be used by educational institutes or colleges to maintain the records of students easily. This goal is difficult to achieve in a manual system, as the information can be distributed, and verbose, and the collection of relevant information can be very time-consuming. The system we propose will definitely overcome these limitations. The Online Attendance and Feedback System is software designed for daily student attendance at schools, colleges, and institutions. You will have easy access to information about a particular student in a particular class. There is another part that is feedback, students can give feedback to faculty anytime, anywhere.

2. LITERATURE SURVEY

In today's scenarios, many Web based applications are used for specific purposes, such as Information about special events, student attendance, etc. These applications help employees in almost every way. This app is used to review various works based on college automation. This proposed web-based application boasts to get updated information for the benefit of students and staff. The administrator is the most privileged person to maintain or track all current updated information. It also has all the privileges to manage the data stored in the application's database. Only the administrator can review or properly approve a particular record. The proposed system addresses the shortcomings of existing systems in a way that guarantees better performance. Surprisingly, it can be used by parents as well as students, staff, and higher institutions from each institution that the application is primarily targeted at. The goal of this app is to reduce student time. For example, instead of bringing a printed copy of the subject's memo, you can access and download the memo. Students, especially class representatives, can also upload recorded notes from previous lectures. Interactions between students and staff, or personal complaints from specific students, can be shared with staff. This app is not suitable for sharing video tutorials.
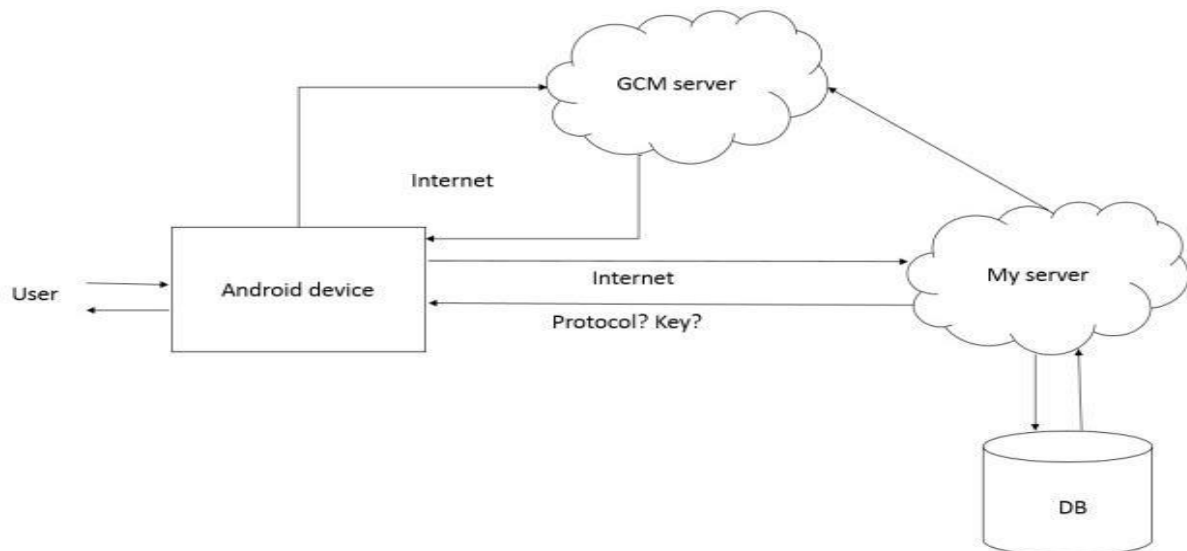
3. EXISTING SYSTEM

The system which is used nowadays has some drawbacks which need to be improved for better performance. The system through which the feedback is taken is not good enough. The views of each and every student are not expressed through these systems. As the technology is developed day by day we need to use this technology so we can get an efficient result inadequate time. For attendance management in the present system, all work is done on paper. The system which is used nowadays has some drawbacks which need to be improved for better performance. The system through which the feedback is taken is not good enough. The views of each and every student are not expressed through these systems. As the technology is developed day by day we need to use this technology so we can get an efficient result inadequate time. For attendance management in the present system, all work is done on paper. All session attendance is stored in registers and a report is generated at the end of the session. I'm not interested in generating reports in the middle of a session or according to requirements as it takes a long time to calculate. At the end of the session, students who do not have a 75% attendance rate will be notified. This is a very time-consuming process. In the current system, the results are displayed on the bulletin board. It requires a lot of paperwork and is time-consuming. Moreover, there is still no system for students to get advice from older students. Universities can not even send urgent notices to students in an emergency.

4. DRAW BACK OF EXISTING SYSTEM

1. Existing systems are not user-friendly because the data acquisition is very slow and the data is saved manually. The use of some technologies can be complex and time-consuming. These systems require specialists to maintain and update the system, which can also be very expensive.

2. It is generated at the end of the session because there are other calculations needed to generate the report (attendance calculation, percentage calculation, etc.). Therefore, you need more time to view the report.

3. All calculations to generate the report are done manually, which increases the likelihood of error. Here, faculty have a lot of math pains, and the loss of reports can lead to major problems. It also takes time because there are too many calculations. After that, there were calculation mistakes, which was very frustrating for teachers. These calculations also affect student performance and ultimately lead to student percentage.

4. In this existing system the papers can miss placed and documents can be lost.

This will cause extra work for the admindepartment pieces of stuff.

5. PROPOSED SYSTEM STRUCTURE

To solve the shortcomings of existing systems, we are developing a time-efficient application called a "college management system". With this application, users of all kinds, including students, staff, and administrators, can log in to the system and perform the desired actions with this application. The proposed system provides high security for university information, including student and staff details. The system architecture consists of smartphones with the Android operating system, web services, database servers, and users as components. Android smartphones or tablets should use a 3G, 4G, or Wi-Fi network to connect to the Internet for better performance. Users log in to the application using their Android smartphone. The user type is checked on the database server and access is granted to the appropriate user. You can also use a web application to log in and perform certain actions such as making sure the internet is turned on.

1] Admin: The administrator is the database superuser and has high authority to edit and view the database. Only the administrator can create data that is subject to change. Administrators can also transfer data from the database. The administrator can view the created record and give approval.

2] Faculty: Staff is individuals authorized to enter each student's grades and attendance details. You can view individual student research achievements and their attendance and enter them into the database later. Staff should give all students a literal warning about performance. Staff can publish daily, monthly, or yearly reports for a particular classroom and its students, provided that the information is accurately recorded. In addition to the student presence and performance of each, staff can see the control sheet for the lesson. This application is primarily focused on reducing the workload of staff.

3] Student: Student information is uploaded to the database by the administrator. The administrator is the only person who gives each student a username and password. Profiles will later be managed and maintained by each student. Finally, access to personal profiles, attendance lists, rating grades, class schedules, and other events is managed by the administrator. Therefore, it is clear that the profile can only be viewed and accessed by students.

6. WORK FLOW

The detailed workflow of this applicationis as follows: The application is divided into 3 subgroups-

[1] Admin

- Admin Registration

The first step in this application is to register HODs, staff, and faculty. First, you need to register the IMEI number of your mobile phone in the database. Next, the parties will provide you with your registration phone email ID and password. The OTP is then sent by the administrator or faculty member over the email address on the phone.

- Admin Login

After registration, the administrator can log in. You can now view the admin's home page with options for recording attendance, uploading results, and sending notifications to students. He can also see recorded attendance and uploaded results.

- Upload Result

Administrators can upload student test scores via the application. The system performs the same authentication as the take participation module. HOD only allows faculty members to upload grades and cannot complete this without HOD's permission.

[2] Faculty/ Teaching Staff

- Take Attendance

During the lecture, faculty members will be able to accept student attendance. If he or she is attending at other times, he or she should not. Attendance data is stored in the collage database by date and percentages are generated monthly. The generated data will be saved for later use.

- Upload Result

The faculty can also upload student results. Students can check their grades directly from the application.

- View Uploaded Result

The uploaded results can be viewed by the professor via the application. It is stored in the college database for future use.

[3] Student

- View Attendance

Students can view attendance uploaded by faculty or administrators. They can confirm attendance at any time, but cannot tamper with the data.

- View Results

Students can view the results uploaded by HOD or faculty. You can check the result at any time.

7.   BENEFITS OF PROPOSED SYSTEM

1.   The web site is very simple and simplifies and speeds up the process of processing and managing results. The web site also advertises collages.

2.   Since the current system is manual, it does not require advanced training for system users and Android is currently the most used operating system.

3.   Since the proposed system is developed on Android OS, it overcomes the limitations of web-based systems and makes it more convenient for users. It takes less time to complete all tasks.

4.   Students do not have to check the bulletin board every day and everyone will be notified.

5.   This project will provide functionality for all existing versions of Android devices. The application automatically generates the results, which minimizes the chance of error.

8.   CONCLUSION

This web-based project works through an application. I blame the paperwork. Administrators, faculty, or students perform all tasks very easily and conveniently. This application provides reliability, security, time savings, and easy control. .. It can be used as the basis for building and improving results viewing and attendance tracking applications for colleges. Students and their parents can also use this application to view score, attendance, and curriculum details. Students can also view details and notifications anytime, anywhere. This application greatly simplifies and speeds up the process of preparing and managing results. The proposed system devalues the working hours of managers and teachers. This will make your work more perfect.

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