ANDROID APPLICATION FOR COLLEGE MANAGEMENT SYSTEM (M-INSPROPLUS)

K. Vivek Thangam[1] ,T. Shyam Kumar[2],V.Yogesh kumar[3] and S.Prabhu[4]

[1,2,3,4]*Computer Science, S.A Engineering College*

Abstract-This project is an android application and a modified version of the present application which is used by the institution. Mobile phones and android applications play a major role in human lives, from being an ordinary talking device to a human companion. College management system focuses on helping the staff's, lecturers who are working in the institution. The android application is focussed to help the staff's for the progression and the academic development of the institution. i e., by reducing the manual labour, checking the performance of the students. It maintains a database of all the information that are recorded and received. It helps the staff's to help students who need individual attention for their academic performance and also in case of any personal grievance.

I. INTRODUCTION

This is an android application and it is an enhanced version of the current application that is currently used by the institution. This application proposes of a student – staff interaction, it tends to be a beneficiary application to everyone involved in the institution. i.e.; attendance, Schedule changes or alteration, Latest updates, Marks of the students, Photos, information and video's related to the subject's, internal marks of the students, etc. It reduces the paperwork that is involved in carrying out confidential works, and it provides sufficient accessing for the students. It is aimed on reducing the workload given to the staff's. Altogether it is a simple, yet a necessary, efficient tool for the staff's involved in this organization.
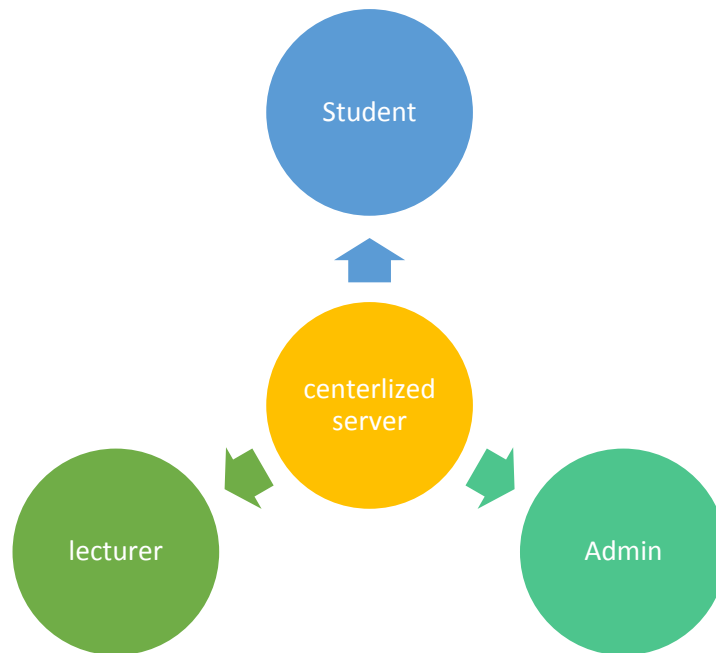
II. LITERATURE SURVEY

In today's scenario, many android applications are used for any specific purposes such as any special event information, attendance of the students, and so on. These applications do help the staff's in almost all aspects. The app is used to verify the various works that are based on the college automation. This proposed android based application boasts of any information retrieval/update for the benefit of the students and the staff's. The administrator is the most privileged person to hold or keep track of all the present information that are updated. And they have all the rights to administer the data stored in the application's database. Only the administrator can verify or give proper approval of certain records. The proposed system has treated the flaws of the previous existing system in such a manner that it assures of a better performance. Apart from the student's, staff's and higher authorities of the certain institution to whom the application is a predominant target, surprisingly it can be used by the parents too. An objective of this app is to reduce time for the students. For instance, they may use access their notes and download them instead of bringing a hard copy of the notes for the subject's. It also enables the student's especially the class representatives to upload the pre-recorded notes of a previous lecture. It student – staff interaction or any personal grievance from a certain student can be shared with the staff. This app is not compatible for sharing any video tutorial.

III. PROPOSED SYSTEM

The current proposed system favours the staffs of the institution in terms of their works such as updating the attendance of the students, internal marks, exam time table, leave approval and leave apply, any change in the schedule etc.

But, a platform which also helps the students is found lacking here. It is often a strenuous task for students while seeking help from their staff members, especially when they need their support in their academics. Sometimes when a latest change happens in the present schedule, the circular regarding the schedule change is intimated by the non-teaching staffs in the respective classes of the college. Not everyone might be present in the class room, it limits the student's knowledge regarding the schedule change. Not all the students really remember their internal marks in the present semester. Students may have certain difficulties, either in their academics or other personal related ones which are often difficult to be expressed, this app shall help them overcome these types of obstacles. In order to overcome these types of limitations the existing system is modified with exceptional changes to assist the students.

College management system Architecture

3.1 Student

The information of the student is uploaded to the database by the admin. Admin is the sole person who hands over the username and the passwords to the respective students. The profile is later managed an maintained by the respective student. Accessing of the personal profile, attendance record, assessment marks, everyday schedule of the class and the remaining events are eventually managed by the admin. Hence, it is apparent that the profile can be viewed and accessed only by the student.

3.2 Lecturer

Staffs are the approved peoples to enter the details of each individual student's marks and their respective attendance. They can view the academic performance of each student and their attendance and later record them in the database. Staff individuals are liable to literally warn each of the students regarding his/her performance. Staff can give out the day by day, each month or the annual report of the respective classroom and their students provided the exact information that is recorded is produced. Apart from the student's attendance and their respective performance the check sheet for the classroom can be accessed by the staff. This application mainly focuses on bringing down the workload that is given for the staff.

3.3 Admin

Administrator is the super user of the database he is highly privileged to work and view the database. Every one of the data that is subjected to modification can be done only by the admin.

Administrator can likewise do the transferring of the data from database. Administrator can view the developed records and give the approval.

IV. STAFF INFORMATION

The availability of the particular staff is shown when a student of staff logins to the application, if the staff is a faculty advisor or the class co-ordinator, it shows the availability when the student logins to the app. The student is made aware regarding the presence of the staff member neither staffroom nor office room, whether on an official meeting or if they have gone on a half day holiday.

This specific availability of the staff reduces the work of the student. he/she need not roam here and there and search for them in the surrounding places when they need their help. While the student is being intimated with the whereabouts of the staff member, it becomes a great boon to them as well as to the staff. This special feature which is based on the availability of the staff and the student's requirements is achieved on this application.

V. CIRCULAR INFORMATION

E-circular is developed in this application to have a proper information update among the students and the staff members. The main objective of creating this feature which is based on the circular is to allow easy access of any information and it should be accessible by all the members who are working and involved in the institution, this app ensures it all. E-circular reduces the tasks of the non-technical staffs who holds the responsibility of spreading the information among all the students, they circular is updated with the current information instead of roaming here and there to all the class rooms.

The information such as a schedule change, or any holidays/leave, or events that are based on any special organization, or the last date for the payment of fees and many notifications. Once the administrator allows the access of the non-teaching staff and it is ensured, they may login to the application and update the information which shall be displayed on the application.

VI. INTERNAL MARK

In present day scenario, the marks of the students are entered in a paper and displayed on the notice board of the classroom. They staff are asked to maintain records of the test marks which is difficult. Not all the student members remember their internal marks at all time. Sometimes when it is left unnoticed by the student, it becomes a hazard for them especially when they score average grades. This may lead to failure in a particular subject. This limitation is overcome by this application. Since it holds the previous marks in a separate database, which allows easy access and retrieval of information and the students can see their grades at any guaranteed time and location. All they have to do is open their app from their mobile phones, login to their particular department, class room and open the internals dialogue box to view their internal marks. Provided it may give some motivation to the student if their performance is found lacking, like "THE PERFORMANCE OF A STUDENT SHOULD NEVER BE UNDERVALUED, PROVE YOUR SELF". This is supposed to boost up the students spirit and help them with their schedules and planning for a better future. With this android application it is possible to achieve this.

VII. LEAVE APPLY

Attendance maintenance is often regarded as a headache. it's a complicated task for the staff members. Often the students find it difficult to apply for leave especially in case of any urgent program which they have to attend without fail, a lot of mishaps happen while getting permission from their appropriate staff members.in order to overcome this difficulty, this app helps them to update the staff members regarding their leave permission, it also helps the staff members in locating the students who are found bunking the classes. Proxy attendance from the students can be reduced with the help of this app.

Students are the ones who are responsible for their attendance percentages. They don't get proper attendance percentage from faculties. Lacking of attendance percentage is informed to students. When their attendance percentage is reduced, a notification is sent to the parents. This Project provides a pie chart to display the student's attendance.

VIII. LIBRARY

In a library there are some books which are not returned after being borrowed, often this is left unnoticed. This is an inconvenient task for the students as well as the librarian. Once the book isn't returned or stolen, other students are left to do nothing rather than forget the book's existence. Even though the borrowing and returning of the book is being recorded and maintained properly, sometimes it is still lost. Hence, in this app the database of the books borrowed or given is pre – recorded and it aims to reduce this task of complication which is done to all. The librarian hereafter may require the higher official's recognition and proceed to check the database to find out if any problem has occurred. This app shall be a boon to the librarian and sort it all troubles for them.

IX. CONCLUSION

Thus our project is mainly focussed on the progress of the student, and on a complete system that is information based service that is present in the institution. The purpose is to reduce the task of the staff members and to benefit them exceptionally in almost all aspects. Man power and manual labour shall be greatly decreased by the arrival of this android based application, and any information updates/retrieval can be done with great ease. Students are introduced into this application with required flexibility and they may interact with the particular staff more frequently for any purpose at any time any place. Hereafter, the students may schedule with this app, they can be able to view their internal marks and report to the certain faculty members if correction are to be made out.

This system will bring a more user friendly and an enhanced system which shall meet out all the needs of the staff members involved in the organization. But hereby promising that there may be further updates on this application and exceptional improvements are to be made to it in the days to come replying on the needs of the staff members and the students.

REFERENCE

[1] D.Vimala, A.Sindhu, S.K.Manikandan .,, "Developing an Android Application for College Management System", International Journal of Future Innovative Science and Engineering Research, Volume-2, Issue-2, JUNE – 2016.
[2] Nihaal Mehta , Sudarshan Shinde , Nishi Tiku," Centralized Database for Android and Web Application", International Journal of Innovative Research in Science,
[3] Engineering and Technology Vol. 4, Issue 11, November 2015
[4] Mary Jane Magno-Tan, Allan V. Crisostomo, Bill Villaflor, and James C. Faller," Cloud-Based College Management Information System for Universities ", International Journal of Information and Education Technology, Vol. 4, No. 6, December 2014
[5] Pooja Naik, Kavita Kattimani, Suvarnamala Divate, Sadhana K , Amaresh Patil and Praveen Kumar Hadapd, "Android Application on College Management", International Journal of Emerging Technology in Computer Science & Electronics (IJETCSE) ISSN: 0976-1353 Volume 14 Issue 2 –APRIL 2015
[6] Juilee Panse, Monika Memane, Monika Bagul, " Android based ERP System", IJCSMC, Vol. 4, Issue. 1, January 2015
[7] Rakhi Joshi, V. V. Shete, S. B. Somani, "Android Based Smart Learning and Attendance Management System", International Journal of Advanced Research in Computer and Communication Engineering Vol. 4, Issue 6, June 2015
[8] Vishwakarma R Ganesh," Android College Management System" , International Journal of Advanced Research in Computer Engineering & Technology (IJARCET) Volume 5, Issue 4, April 2016
[9] Mali Shital, Kulkarni Archana, Metkari Ashwini, Shendage Rupali, " SQMSA: Student Query Management System in Android, International Journal for Advance Research in Engineering and Technology