DEVELOPING AN ANDROID APPLICATION FOR COLLEGE MANAGEMENT SYSTEM

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JUNE – 2016

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ABSTRACT

The Rapid growth of android application is creating a great impact on our lives. This Project deals with the students to assist them in the college environment with the help of android operating system. This project requires for the student to check the availability of staff members when they are in need of getting help from them and get circular information instantly. Currently many android applications are available to favor the students with respect to their studies such as to assist them in taking lecture notes or videos and remind the works to be done by the student within the particular time etc. On the other hand this project aims to assist the student updates their circular information like holidays, new events, assignment etc which reduces the manual work. This application shows the time table of their respective subject staff members. Students can check their internal marks at any time. Also it notices that they work hard in upcoming exams when they get fail mark. The software required for this project is android operating system. This application provides good user friendly and it is cost effective. So that every students can use this application.

Keywords— Android operating system, Students, Availability, Circular information, Marks.

I. INTRODUCTION

World is contracting with the growth of mobile phone technology. As the number of users is increasing day by day, facilities are also increasing. Starting with simple regular handsets which were used just for making phone calls, mobiles have changed our lives and have become part of it.

Fig 1: Android Technology

Now they are not used just for making calls but they have innumerable uses and can be used as a Camera, Music player, Tablet PC, T.V, Web browser etc. and with the new technologies, new software and operating systems are required. For building real time applications, android is feasible software development kit with comprehensive set of tools. The details which we obtained from our phone are a
cost effective way and we can get the information easily and quickly at any time. The objective of this Project is to assist the students in the college environment with the help of android operating system. College students are able to access their required information such as availability of android operating system. They get tired at short period of time, they have been searching in the campus. So that students can get help easily.

The students in the college environment may need to get signature from staff members for their work or to get help for personal work etc. At that time they keep on searching the staff members in the college campus. This leads to wastage of time of a student and they get tired at short period of time. So an android application is used to avoid this problem. This application helps the student to know the current status or place of a staff member who they have been searching in the campus. So that students can get help easily.

Usually the college relied heavily on paper records for managing the student’s data, official work and any other means. This method of managing the information has several drawbacks. First to convey the information to students, it must be displayed in the notice board which is placed in every department or center of the college. The students have to visit the notice board to know the details. Otherwise the information is circulated through the non-teaching staff members in the college. It takes a very long time to convey the information to the student. Paper records are difficult to manage, to retrieve, alter, and re-file the paper records are all non-value added activities. This android application aims to provide the information instantly and the students able to see the details at any time which reduces the manual work. This system can be used by educational institutes to pass the information easily. Achieving this objective is difficult using a manual system as the information is scattered, can be redundant and it may be very time consuming.

All the students are not able to remember their internal marks throughout the semester. This leads to the less marks or failure in the particular subject. So this application also aims to show the students individual subject mark of the particular semester. This will alert the students if they secure low mark in the subject. According to that the students able to plan their studies and can secured good marks in the subject. This paper focuses on presenting information and provides the availability of the staff members in an easy and intelligible manner.

II. LITERATURE SURVEY

Currently many android applications are available separately to favor the students with respect to their studies such as to assist them in taking lecture notes or videos, download the notes, calculator application which helps in doing complex engineering functions and reminder that remember the works to be done by the student within the particular time etc.

All researchers have aimed to develop and provide a generalized solution to monitor the various works that are carried out by a College for automation of various tasks. The major contributions to this topic are summarized below: Amita Dhale, Madhav Mistry, Tushar Zore [1] have proposed the android application. An Android and Web Based Application that Manages College System is designed to provide more easier way to the users to add and retrieve information quickly. Once the user opens this Android and web application, at the front end all the schedule/event are available to everyone in a precise manner. There are mainly five types of users. They are Student, Parent, Teacher, Higher Authorities and Administrator of the college. The different functions involve in the case of an administrator are updating college information, approvals, events etc. The administrator can view and approve the various records.
Students can edit their Profile, and update them constantly. Students can very flexibly search for other student and view College schedule and details, and interact with other student and also teacher via messaging. They can also send a feedback to higher authority. Teacher can view College schedule, events and details. They can take Attendance using the application, and also update the performance of student. Using this system the faculty could easily inform or interact with the parents of student and also parents can communicate with the management.

S. Hari Varma, A.R. Arvind Yogesh, K. Kirthik Raj [2] has proposed another android application. The Scope of this project is to minimize student time in taking Xerox for their notes instead they can download notes and broadcast messages with each other. This application can also provide the respective student details i.e. their internal marks, total number of days they attend the classes and so on.

This activity displays “List of Students” which lists total number of students, ”Broadcast messages” to send and receive messages between the recipients and “Add Notes” field is used by the staff member to upload their subject notes.

The student messenger application is mainly designed for the students to know their respective details such as internal marks, number of days they are present and absent, uploading and downloading notes and so on. Finally students can get their respective details and notes forwarded by their respective department. This will helps the students to get their respective details which saves time in taking Xerox for the students and students can also broadcast messages each other. But limitations are this application has to provide good user interaction between the students or recipients and the video tutorials are not developed.

III. PROPOSED SYSTEM

Currently many android applications are available separately to favor the students with respect to their studies such as to assist them in taking lecture notes or videos, download the notes, calculator application which helps in doing complex engineering functions and reminder that remember the works to be done by the student within the particular time etc.

On the other hand, there is no application for student that checks the availability of staff members when they need help from them. The circulars are circulated through the non-teaching staff members to each and every class in the college. The student may not aware of this if they are not present in the class room. The student may not remember all the internal marks of their respective subjects in the current semester. To overcome the above limitations this project develops an android application for students.

A. STAFF AVAILABILITY
When the student login to the application by providing their id and password it shows the status by selecting the particular staff name. The status may be an available in staff room or in office room or in any other official meeting or went to outside for personal work.

So the student need not search their staff members in the surrounding places when they need assist from them. Due to this student can easily check or know status of their staff members and reduces time consumed by the student for searching and also reduces physical work. This is achieved with the help of SMS servicing feature of android operating system or database connectivity of android.

**B. CIRCULAR INFORMATION**

Now describe a network for distributing campus information among lecturers and students. The concept of developing college information system is to ensure that student can access information at any time through smart phone.

So this application updates the circular information such as holidays, news events, and last date for the payment of exam fees, enrollment of competitions and various academic notifications. The non-teaching staff member need to login to the application and updates the information which will be available on the student page.

![Login Page](image)

**Fig 3: Login Page**

**C. ASSESSMENT MARK**

Today in college students marks are entered manually. The separate records are difficult task. The student cannot remember all the internal marks of their particular semester. This results in the less or fail mark in respective subject. So this android application avoids this problem.
Fig. 4 Internal mark of Student

The student can login to the application and can view their marks at any time and location. This figure allows the student to enter their respective department, current semester of the student and select the internals to get their respective internal marks. Finally click “Get Marks” to get their respective marks. This application also shows the message that “You Should study well in the upcoming exam” if the student get below the pass mark. As a result the student can plan their schedules and study well. This is achieved with the help of android database connectivity feature.

IV. CONCLUSION

Thus our project focuses on the development of a mobile application in campus environment that supports information services in campus environment. It reduces the man power required and updates the information instantly. It Allows students to check their respective internal marks and can inform their respective faculty if there are any corrections.

The system can be further enhanced to become a more powerful and sophisticated system. There are still many aspects for improvement and enhancements of the system can be made in the future to meet changing needs of the students.

V. REFERENCES


