

An Android Based Mobile Framework for Student Alert Notification

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Abstract- *Android phones are now becoming available to more and more people with the advancement of electronics and communication technology. They are getting wide acceptability because of their user-friendly applications. This paper deals with such an android application made for academic aid of students, teachers and staffs of educational institution. Its features are providing class and laboratory schedule, notice board, teacher's update, notification for newly included updates, CGPA (cumulative grade point average) calculation. Its goal is to produce help in educational works by making communication easier, provide easier and quicker access to data. Though' it has been developed for a selected establishment, this application has the potential flexibility to include a lot of helping function and have extended version for wider vary of users.*

Keywords- Mobile application, android, educational institution, academic news updates, server, codes.

I. INTRODUCTION

The combination of the smart phone and the Internet service is the trend of the future information development and software applications. Mobile phones are the most commonly used communication tools. Using mobile phones to obtain information is not only quick, but also more convenient shortcut to improve peoples lives. Notice Board is primary thing in any institution / organization. But sticking various notices day-to-day is a difficult process. A separate person is required to take care of notice board. This project deals about an advanced hi-tech wireless notice board. We are trying to develop an android application to solve problem related to normal notice board.

The disadvantages of existing notice board is that the students have to keep on checking the notice board always and for this the faculty members have to waste their time in informing students. If students fail to check out the notice board they might miss out some important news and this may affect them. This project is developed in an android system and we are using cloud to store data. While e-mail is a way to converse privately with one or more people over the Internet, electronic notice boards are totally public. Any message posted by some other person can be read (and responded to) by anyone else who has this android application which provide message board

In this project we have provided notifications of all the events which will be conducted in our college. It may be related to training and placements, cultural events or may be related to any small activities in college.

II. PROBLEM STATEMENT

Basically notice boards are a simple way of displaying information about services, promoting camping's, forthcoming events, meeting and much more. They can be used effectively to bring people attention. However, people will only look at a notice board if the board is well presented and up to date. Walls covered in a multiplicity of posters and papers, often out of date, and without any theme or focus are of limited use, and do not present a positive or efficient image. Notice board is a primary thing in any institution or an organization. So we are trying to develop an android application known as M-campus, which will include all the information, related to any institution. As many students now a days use Smart Phones they can get all the related college activities on their cell phones. Due to this they wont miss any important news. And it is not compulsory for the students to have a Smart phone. If a student does not have a smart phone he will receive text messages. And because of this m- notice board students will be able to view the previously posted notices also. All the notice will be displayed in well manner.

III. GOALS AND OBJECTIVES

The main objective of the project Android Academic Assistance is to enable student utilize a common notice board for collection of information from different notice boards of different sections without visiting all places, which is time taking process. The project aims to help the students to keep updates of all the important announcements regarding academics, training and placement and extra-curricular activities. This project will be used by students as well as teachers. The purpose of this project was to invent new technology to transfer information from teachers to students and vice versa. To develop an application to get instant notices to the students related to its department.

- Provide notification of notices
- To implement the android based notice.
- To provide notices remotely.
- To provide details of how many students read the notice.
- To maintain the database behind application.
- To give a authority to authorized person who can only update the notices

Mobile is the future of software development. Usage of mobile has increased in the past years. India stands second in the world, in number of active mobile phones. Android is open source Linux based operating system designed mainly for smart phones and tablets. The scope of this project is to

introduce a new technology for notice board display system using GCM. An administrator can send messages from anywhere in the world. The display boards are one of the single most important media for information transfer to the maximum number of end users.

IV. HOW IT WORKS

This application can be used for two purposes, one is to read data from the database, and another is to add, delete, and edit data from the database. So operation can be viewed in two ways-

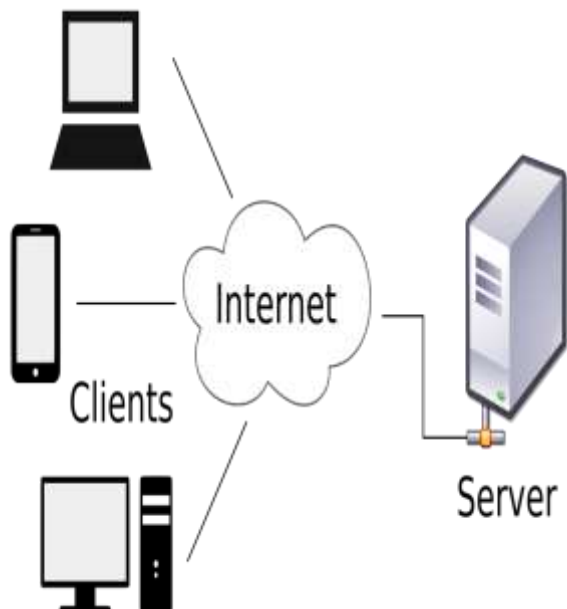
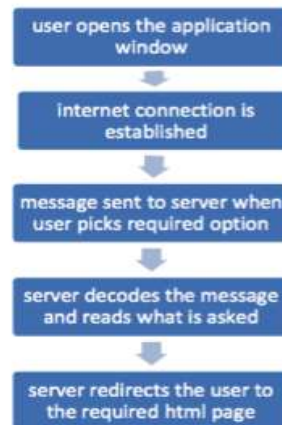


Fig 1: Interaction between phone and server.

While reading data from database:

When user opens the application window, he is given the list of option he can use depending on his requirements. When he/she picks an option, say routine, teachers' update, notice board, about the app or developers etc, internet connection with the server is established using the existing internet service settings on the phone. It can use GPRS, EDGE, 3G, 4G etc. Using JAVA programming code, it has been programmed to redirect the user to the page with his required information after checking the option which he has picked. For example, if he has picked notice board, he will be redirected to the HTML page containing notice, if he has asked for teachers' update, he will be redirected to 'teachers' update' page and so on. He can leave the page when his purpose has been served just by selecting 'back' or 'quit'. Internet connection will be discarded as soon as he leaves the page.



While manipulating data in the database:

Operations like adding new updates, posting a notice, editing the routine etc. are open for authorized users only. So these options can be used by teachers only when they pick the 'teachers' option. When user picks this option, he is asked to enter the username and password. PHP programming codes have been used to check this username and password. If server finds that the username and password typed by the user is same as those stored in the program, it gives the user access to the database where he can make changes, after doing so, changes are saved. When user leaves the page, internet connection is discarded. To edit again, user has to reenter with the username and password.



V. RESULTS

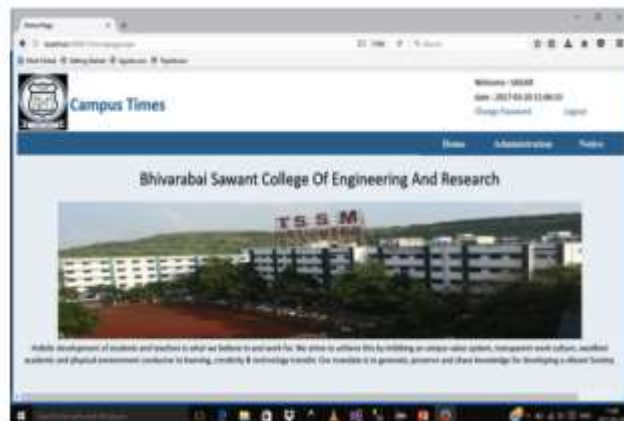


Fig 2: Home Page



Fig 3: Android Home Page

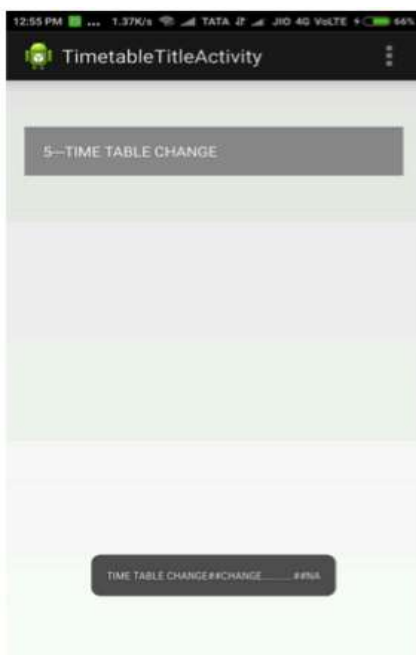


Fig 4: Show Notification Android

VI. CONCLUSION

This application was designed for one specific department. But there are several ways in which it can be utilized with a little more addition and editing. Thinking strictly for academic purpose, it can be extended to a larger system-keeping log of routines, results, notice and schedules for different departments and respective teachers and students. For that a server with much capacity and more memory space will be needed to run the application. There would be separate administrator panels for separate departments. These can work under a central administration panel of university authority. A central notice board can be added containing updates about the whole university and not only a department.

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