

# A Survey on Web based Notification Management System with Android Application

Mr. Lalit Jadhav<sup>1</sup> Mr. Sanket Jagushte<sup>2</sup> Mr. Tejas Mhade<sup>3</sup> Prof. Mangesh Gosavi<sup>4</sup>

<sup>1,2,3</sup>Student <sup>4</sup>Assistant Professor

<sup>1,2,3,4</sup>Department of Computer Engineering

<sup>1,2,3,4</sup>Rajendra Mane College of Engineering and Technology, Ambav, Mumbai University

**Abstract**— In recent years the Android Technology with web-services has brought many drastic changes in mobile application development field. The management of accurate and up-to-date information regarding a student's academic career is difficult and time consuming task for the schools. Now-a-days the information to parents regarding their ward is provided through post cards, SMS or Email, but these techniques are very much hectic time inefficient and lengthy. Hence this application provides a solution through a simple interface for maintenance of student information. This application provides a generalized solution to monitor the various works that are carried out by a school for managing it. It helps parents to get detailed information regarding to their ward such as attendance, fees due, result, progress report, important notices, school's event details, information about teachers etc. using the android application. It also contains query message option for parents so that parents can interact with the college faculty through this application. It also facilitate parents to gain all the notifications about the activities held in the college. Also SMS based mechanism is implemented to send notifications for those parents who don't have an android mobile. Each individual parent will be get the details of his/her ward only.

**Key words:** Web based Notification Management System, Android Application

## I. INTRODUCTION

We have seen over the years that the process of notice boards, important notification about academics has been carried out manually almost across all educational institutions. The process is not only time consuming but also inefficient. This traditional system requires a manual work of writing notifications, taking printouts, displaying it on notice boards and also requires students to watch periodically. It uses a lot of paper work. The need of developing such type of system is to solve daily life problem of notifications, notice management. Sometimes the case may occur that students can't convey whatever is the noticeboard or about the homework to their parents. Let due to heavy rains school or organization wants to declare the holiday on next day. But student get know about that holiday when he/she went to school which is too late. To overcome these problems and enhancing parent-teachers communication we proposed this application.

Today, we need not to maintain paper based Notice boards. Following this thought, we have developed a system based on the concept of web services which is implemented on Android mobile application as well that communicates with the database residing on a remote server. This system will provide many facilities to parents, teachers and students. Through this application parents will able to get detailed information regarding their ward such as attendance, fees due, marks, important notice, event details

etc. It also contains query message option for parents so that parents can interact with the faculty through this application. It will give information about progress report of child. Another facility is that student diary which will contain student's daily homework, absent note and academic calendar. Another thing is school bus management which will give alert to the parent about the school bus status. Also this application will provide study material to parents that will help parents to understand the about student study. Teacher is another main user of this system. Teacher can take attendance of students on android application and he/she can directly upload it on server database using that android application. This system shows that how the concept of web services will be useful for communication between remote server and Android mobile application. With the help of this Application parents are able to access all the details regarding their ward. All data is stored securely on SQL servers managed by the college administrator and ensures highest possible level of security. The system features a complex logging system to track all parents' access and ensure conformity to data access in order to reduce the manual work by visiting the college personally which will help the parents to save time from their busy schedule.

## II. LITERATURE SURVEY

In today's educational system notices, important notifications, timetables, results, information about any event etc. are displayed on the notice board. In this manual system student didn't get vital information about that notification. The sizes of notice boards are small due to this only important notifications are placed there. And the main thing is that student must have to always visit the notice board to check if there any new notice is placed on notice board or not. The notice boards are distributed among different departments of schools therefore it is not possible for student to visit each department for getting updated information. This process of displaying notices does not guarantee that every student have received the message.

S. R. Bharamagoudar, Geeta, S. G. Totad [1] worked on "Web Based Student Information Management System" that provided a simple interface for maintenance of student information. It could be used by educational institutes or colleges to maintain the records of students easily. The creation and management of accurate, up-to-date information regarding a students' academic career is critically important in the university as well as schools and colleges. But this system can be used to store the students data and it limited only for schools or colleges for their own use.

Bongani T. Mabunda Johnson O. Dehinbo [2] worked on "Enhancing Online University Class Management System with Instance Email Feedback Alert" that manages the class, attendance and provides instant

email alerts and updates student records. This system uses emails for communication between students and teacher. Thus there is no direct communication between student and teachers. And if teacher want to communicate with student or deliver an important message it becomes difficult for them.

Attendance is a very important task for maintaining the record of student. In present system maintenance of record is done manually. Manually maintaining the record is quite a time consuming task. Moreover other details of student are stored in different records which increases redundancy. Also in the present system the feedback is issued from student using the web application or manually which will arise data inconsistency. Thus there is a great need for a fast, reliable, efficient and easy automated system which will help in updating and provide the best way for student-teacher, parent-teacher communication in short duration of time.

### III. PROPOSED SYSTEM

Proposed system is about sending notifications from school in simple and convenient way to parents. There is a need to minimize the gap the bridge between teachers and parents by designing an android app to provide timely and critical student information to the parents. It is a standalone Application and can be used in various institutions like schools, Colleges etc. This application will provide a generalized solution to monitor the various Notification, notices, and other student information by administrator and parents as well. We decided to build this system to reduce the time which is require to deliver the notifications to Parents by forcing them to use android technology. We are trying to bring school's activities in the front of the parents as early as possible. So we are going to develop an android Application. From that parents will register with the school's server by providing their details and student's unique number. Then one OTP will be send to parent's mobile number via SMS and then he/she will login to the system. After that application will display one GUI in which latest notification, School's events, Academics and other facilities will be displayed. Considering the other parents who don't have android phone we will include a SMS based Notifications which will be also handle by system administrator.

In proposed system firstly administrator will create login id and password for students, teacher and staff so that in earlier stages they can use it. Administrator will have responsibility of updating notifications, notices and bus reminder, exam result, timetable etc. Also administrator have responsibility of sending SMS notifications to non-android users, database management and application management. Parent activities: On the other side first parent have to download and install android application provided by school. After that parent must have to register with system. For that parent will enter the registration number of his/her student with their details. From server an OTP will be send by SMS to that mobile number to verify the identity of parent. After registration parent can go for the login. After successful login parent can see all the notifications, notices, attendance and all facilities provided by school.

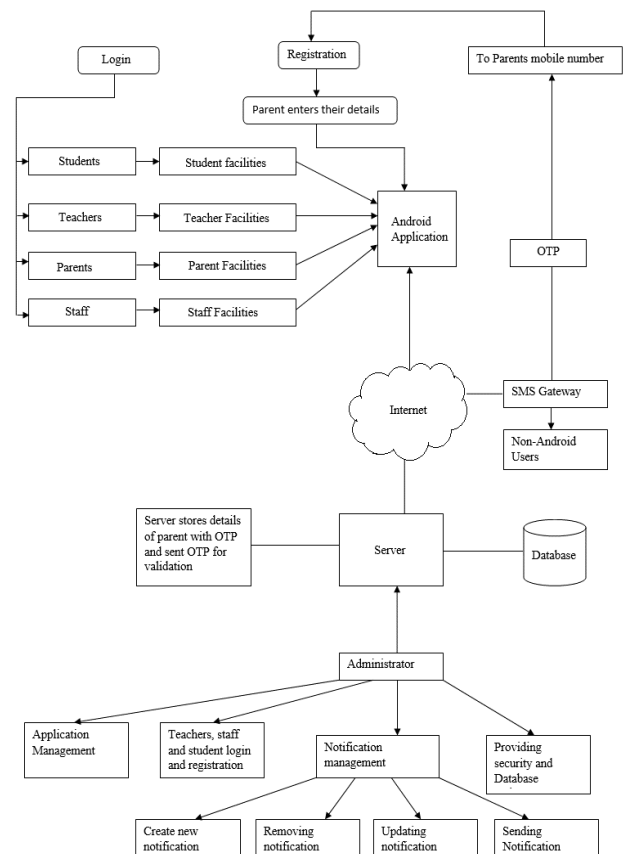


Fig. 1: Block Diagram

### IV. APPLICATION

Web based notification management system with android application is applicable to every organization who need to notify the organization member in short time period. Also considering the school it will become helpful for parents to understand the schools activity in more conventional way through the android phone.

### V. CONCLUSION AND FUTURE SCOPE

Proposed system focuses on the implementation of receiving notifications through android applications which will cover all the aspects of existing manual system. System mainly proved beneficial to the parents, students and organization as well. Also this system will totally remove manual and time consuming nature of other existing system.

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