Web based Notification Management System with Android Application

Mr. Lalit S. Jadhav
UG Student
Department Of Computer Engineering
Rajendra Mane College of Engineering & Technology, Ambav, Mumbai University.

Mr. Sanket S. Jagushte
UG Student
Department Of Computer Engineering
Rajendra Mane College of Engineering & Technology, Ambav, Mumbai University.

Mr. Tejas R. Mhade
UG Student
Department Of Computer Engineering
Rajendra Mane College of Engineering & Technology, Ambav, Mumbai University.

Mr. Mangesh K. Gosavi
Assistant Professor
Department Of Computer Engineering
Rajendra Mane College of Engineering & Technology, Ambav, Mumbai University.

Abstract

Now a day’s many people are having android phones. Generally, phones were innovated for calling purpose but now a days we use it more for social activity such as whatsapp, facebook, hike etc. So technology comes forward to us and it is our duty to use it for our important purpose. Following these thought we developed this system. 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.

Keywords: WBMSWAP (Web Based Notification Management System with 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 lots of papers. The need of developing such type of system is to solve daily life problem of notifications management. Sometimes the case may occur that students can’t convey whatever was on the notice board 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 implemented 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 with php and android technology which are open source technologies.

We developed android mobile application as well that communicates with the database residing on a remote server. This system will provide many facilities to parents, teachers. All data will be stored securely on mysql server 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

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. 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 implemented this application.

III. PROBLEM STATEMENT

We have tried to analyse the existing systems which are currently used by the schools for sending notifications and other information which is manual, time consuming and it requires man power. So to overcome such these problems we are going to propose this web-based android application to get notifications, notices and detailed information of students to their parents and to stay in touch with the school.

IV. IMPLEMENTED SYSTEM

The database is the core part of this project. According to requirements we had created database with primary and foreign keys. Created separate master and mapping tables.

To fetch data at android application from web server first we have created an administrator interface. From this interface administrator will update notifications, attendance, provide study material, upload photos of events and see the suggestions given by parents.

So to store data on server we have to give following UI facilities:
- Update notifications.
- See the uploaded notifications.
- Upload event photos and description.
- Add class, division.
- Upload timetable for each division.
- Add and remove class teacher.
- Add subjects for current academic year.
- Add and remove subject teacher for current academic year.
- Add students with detail information using excel sheet and UI.
- Add staff such as teacher, clerk and principal.
- Remove student and staff.
- Search student information by registration number and class wise.
- See the suggestion given by parents.
- Send SMS alert to non-android users.
- Create OTP and send it through SMS to requested user.
- Making database connectivity with all UI functionalities.

While implementing administrator interface we have implemented an android application which will be used by parents and teachers to receive notification, event photos, report and attendance. There will separate two logins for parents and teachers with different functionalities.

A. Functionalities for Parents

- Receive notifications, event photos and daily attendance.
- See today’s timetable
- Upload suggestion in suggestion box
- See study material

B. Functionalities for Teachers

- Taking and uploading attendance
- See the event photos
- See notifications

In implemented system firstly administrator will register the students and teacher with mobile numbers in earlier stages. Administrator will have responsibility of updating notifications, notices and bus reminder, exam result, timetable etc. Also administrator will 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. Before that mobile number of parent should be in system database which was given during student registration. For that parent will enter the mobile number. From server an OTP will be send by SMS to that mobile number to verify the identity of parent. After successful verification parent can see all the notifications, notices, attendance and all facilities provided by school.
V. SYSTEM INTERFACE

VI. 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.

VII. CONCLUSION

Implemented system is mostly concentrating on 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.

ACKNOWLEDGMENT

We would like to express our sincere gratitude towards our guide, Prof. Gosavi M.K., for the help, guidance and encouragement, he provided during the BE Project-I. This work would have not been possible without his valuable time, patience and motivation. We thank him for making our stint thoroughly pleasant and enriching. It was great learning and an honour being his students. We are deeply indebted to Prof. Naik L. S. (Head of Department) and Prof. Gamare P. S. (Project Coordinator) and the entire team in the Computer Department. They supported us with scientific guidance, advice and encouragement, they were always helpful and enthusiastic and this inspired us in our work. We take the privilege to express our sincere thanks to Dr. Bhagawat M. M. our Principal for providing the encouragement and much support throughout our work.

REFERENCES


