

Survey on Android Based Parent Notification System

K.Pavithra¹, Mrs.S.Saranya²

¹ PG Student, Dr. N. G. P. Arts and Science College

² Assistant Professor, Dr. N. G. P. Arts and Science College

Abstract - The proposed android application “ANDROID PARENT NOTIFIER APP” will be developed in Android Studio environment with Android 4.0, and back-end storage will be MySQL. This application will run in any android supported mobile with minimum support of Android 4.0. The staff member can upload student’s exam results, timetable and school event information and important notifications related to their class using their login and the parents of student will sign up in this app and view their results and teacher uploaded details. The main objective of this project is to make parents to view latest notification sent by schoolteacher and view their exam results in personal mobile itself. It reduces the repeated visit to the schools by parents. It provides the facility to send school events and ensuring parents receive rapid, accurate, and consistent information about their ward. To overcome the hurdles of the previous manual work of staffs here the application proposes a new system, which can be used to minimize manpower and saves time. For this reason, this new system School Notifier App Parents will be developed. To enhance the facility of parent and school staff interaction and give them regular updates to parents the proposed app will be developed to integrate with PHP/MySQL. This facilitates the app usage from anywhere, anytime. Further customization in this app is possible in future. Schedules for examination, event participation, student award winning details and their extracurricular activities with grades can be added in this application in future. Admin user will be added into this application and the staff member will be administered by this user. In future the application can be developed to integrate with chatting facility and video sharing facility. Present proposed app will support all text and image content upload and information management.

Index Terms - Android, SQL, Student information, Parent notification.

I.INTRODUCTION

We have seen over the years that the process of awareness boards, important notification about

academics has been carried out manually almost across all educational institutions. The process is not only time center but also inefficient. This traditional system requires a manual work of writing notifications, taking printouts, displaying it on pinboard and also requires students to watch periodically. It uses a lot of paperwork. Today, we need not to maintain paper-based Notice boards. Following this thought, we have developed a system based on the concept of network services which is implemented on Android mobile application as well as on PC that transmission with the database residing on a remote server. This paper focuses on how the students are able to get alerting right on to their mobile application. In this paper the writer shows that how the concept of web services will be functional for communication between remote server and Android mobile application. With the help of this Application parents are able to approach all the details regarding their ward. All data is stored securely on SQL servers managed by the college director and ensures highest possible level of security. The system features a complicated logging system to track all parent’s access and ensure conformity to data approach in order to reduce the hard work by visiting the college personally which will support the parents to save time from their busy schedule.

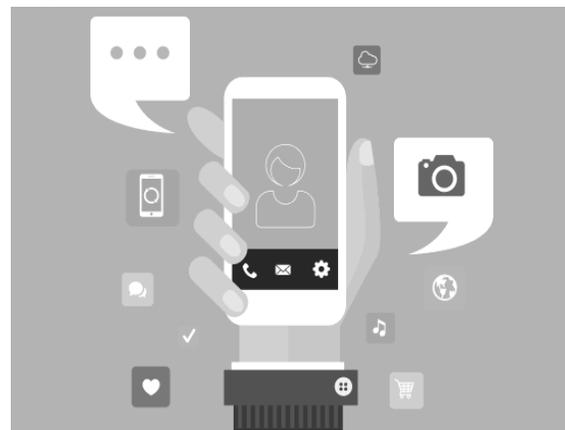


Fig. 1 Android Technology

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 institutions. The process is not only time consuming but also incompetent. This traditional system requires a manual work of writing notifications, taking printouts, show it on notice boards and also requires students to watch periodically [1]. It uses a lot of paperwork. The need of developing such type of system is to solve daily life issues of notifications, notice management. Let due to heavy rains school or organization wants to declare the holiday on day after [2]. But student get know about that day off when he/she went to school which is too late. To overcome these issues and enhancing parent-teachers interaction we implemented this application [3]. A project that aims to build a wireless telegraphy communication between instructor and a student [4]. Now a days there is a huge need for the innovation in the field of show the important announcements through the wireless based notification system. Since the use of internet is increased therefore each person are interested in the wireless communication as because everyone spends most of the time on the mobile phones [5]. With the typical traditional approach of displaying notices on the boards does not help everyone as each user is not notified individually [6]. Therefore our approach is to make less the manual efforts by restore the user by sending the push or popup notifications individually by wireless communication which will help the user not present physiological still he will be able to know the important notices [7]. Student Notification System developed an application that helps to all students in the college. Student Notification System is an android application which is useful for students as well as the institution management to maintain all the college information. In the existing system all the activity are done manually. It is very time consuming [8]. In our proposed system, students can view results using their Android phone. All the data will be store in the server. In this system, students have easily access for viewing the marks, provided their username are correct and they are not allowable to update any content in the server. Students can view all Notifications from the application directly [9]. Android based Student Reminder System in the earlier system the student has to view the information in the hard file or the web site

[10]. In this paper, we propose an android based mobile application which is useful to the students and their parents [11]. The student and parent can also know the recent updates in the institute and also can browse directly to the important links of the college. their work proposed an application to manage the student information in a management. The advantage of this application is mobility, secure and limited error prone [12].

III. RELATED WORKS

In any educational system, notices, important notifications, information about any event etc. are displayed on the notice board. In this manual work student did not get vital information about their instructor or any updates about notifications regarding events on timely manner. The sizes of display boards are small due to this only important notifications are placed there. The notice boards are distributed among different departments of college therefore it is not probable for student to visit each department for getting updated information about their notifications, events.

A. Existing System

In existing system staff will share the details to students via notice boards. Before publishing details the team will revise the information and permits for publication. The details are pasted on the notice board. In the existing system, there are limitations like inconsistency of data, lots of repetitive paperwork and time-consuming reference work. This haphazard fashion in maintenance leads to the problem of integrating the various student works.

B. Disadvantage of Existing System

To prepare the status for each task. This is not an easy job because every student update has to be checked in every aspect. There is no data security and leads data redundancy. The process is very slow because every report is made by manual process (i.e.) it increases workload.

IV. IMPLEMENTATION DETAILS

Here we develop a web application and android app which short out previous issues regarding staff result publishing and timetable sharing with students. These will more useful who ever can check the information using their android app via internet connection. The

students who are view the uploaded information can use their roll number as a login id and preferred password for login. Any student or staff can also view the results, and timetable of student community.

A. Benefits

Result upload and organizing data brings a structure to unstructured information. Create a rich view of information captured. Build and innovate this application gives solution to existing problems and develop new technology, processes, and products. Android app enables student to check the details from anywhere.

B. Staff Login

Logon module validates the login details of every staff. Department staffs have access to upload student exam results, timetable, and important notifications. Before accessing these details, staff should login.

C. Upload Results

Student internal exam result, model exam marks and external exam results for every student will be uploaded online from this Module. Result will be in text format.

D. Timetable sharing

Staff prepared department timetable can be shared to students in document format or in image format. Shared file can be downloaded and viewed by students.

E. Notifications

Important notification regarding college events, timetable modifications and seminars can be sent as notification to student. Android app will have separate notification link when triggered it lists important details.

F. Parent Signup

Staff uploaded information from web application can be accessed by students from their android app. Before accessing this application, student must sign up in the app and login.

G. View Results and Timetable

Logon students have links to view results, timetable and notifications. By choosing the link app will lead them to target activity and by enrolling their roll

number student can view exam results and other details.

V. CONCLUSION

This application in automating the existing manual system. This is a paperless work. It reduces manpower required. It will provide specific information always. All years together gathered information can be saved and can be accessed using application at any time. This System is essential in institution. All the administrator, HOD, parents, faculty can get the required information without defer. As this application is only made for the generic purpose it can be generalize to big scale use such as in institute, School and even distance education can be benefited from this application as this app can bring all related information according to the ward without direct contacting the staff. Features like video calls between the staff and parents can also be added to this function. In future we can also add the emphasize like paying the fees of the ward.

REFERENCE

- [1] Mr. Lalit S. Jadhav, Mr. Tejas R. Mhade, Mr. Sanket S. Jagushte, Mr. Mangesh K. Gosavi "Web based Notification Management System with Android Application" UG Student & Assistant Professor, Department Of Computer Engineering, Rajendra Mane College of Engineering & Technology, Ambav, Mumbai University. IJSTE - International Journal of Science Technology & Engineering, Volume 2, Issue 10, April 2016 ISSN (online): 2349-784X.
- [2] "Android Based College Notification System" International Journal of Science, Engineering and Technology Research (IJSETR), Volume 3, Issue 6, June 2014.
- [3] Amita Dhale, Madhav Mistry, Tushar Zore, "A Survey on "Smart Connect" an Android and Web Based Application for College Management System", Department of C.E., B.D.C.E., Sewagram, Wardha, 11 November 2014.
- [4] Y. BHAVANI* and D. SANJAY "Android based Student Reminder System" Dept. of Information Technology, Kakatiya Institute of Technology and Science, Warangal, Telangana, India. Journal Website: www.computerscijournal.org ISSN 0974-6471, Vol. 10, No. (4) 2017, Pg. 760-764.

- [5] S. R. Bharamagoudar, Geeta, S. G. Totad, "Web Based Student Information Management System" Assistant Professor, Dept. of Electronics & Communication Enng. Basaveshwar Enng. College Bagalkot Karnataka Associate professor Department of IT, GMR Institute of Technology, RAJAM, Andhra Pradesh Professor, June 2013.
- [6] "Enhancing Online University Class Management System with Instance Email Feedback Alert", by Bongani T. Mabunda Johnson O. Dehinbo, Proceedings of the World Congress on Engineering and Computer Science 2012 Volume I, ISBN: 978-988-19251-6-9 ISSN: 2078-0966 (Online), October 24-26, 2012, San Francisco, USA.
- [7] "College Parent Interaction using Android Application", by Pallavi Mohadikar, Narsin Mulani, Afnan Shaikh, Rachna Sable, International Journal of Computer Science and Network (IJCSN), ISSN (Online): 2277-5420 Volume 4, Issue 1(February 2015), www. IJCSN.org.
- [8] Namrata N. Shahade, Priya A. Kawade, Satish L. Thombare, "Student Attendance Tracker System in Android", IJFEAT International Journal for Engineering Applications and Technology, ISSN: 2321-8134.
- [9] Guler, E., Virtualized lab infrastructure on a budget for various com-puting and engineering courses, in IEEE conference on Information Technology Based Higher Education and Training (ITHET), 21-23June, 2012.
- [10] Aylward, R.C., Engaging the student: Programming solving reallife prob-Lem"s, in IEEE conference on AFR ICON, 9-12 Sept. 2013, Pointer-Aux-Piments.
- [11] Munihanumaiah, P., "Design and development of network-based consumer applications on Android", in IEEE conference.
- [12] Danny Goodman with Michael Morrison, Java Script Bible, 5th ed., Wiley Publishing Inc., Indianapolis, Indiana.