

Multipurpose User Beneficiary Application for Institutions using Android (MUBAIA)

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Abstract This paper is aimed at developing a Multipurpose User Beneficiary Application for Institutions Using Android that is of importance to either the educational institution or the college. This system is internet and intranet based system which can be used inside and outside the institution. Mobile technology has introduced a new environment among upcoming generations that can be used to improve the management process. Education system in India has become so advanced in last decade due to the development of the technology. Smart class, video conferencing are some of the examples of modern trends in educational system. These applications help the institute to move forward quickly, fulfil their vision and accomplish their goals. Section I contains introduction about the project, section II contains the perspective details, section III contains information about the existing system, section IV holds details about the proposed system, section V denotes the proposed system architecture VI section denotes screenshots, and section VII concludes the vision of this paper.

I. INTRODUCTION

Android is a Linux-based operating system designed primarily for touch screen mobile devices such as smart phones and tablet computers. Android is an open source and Google has released the code under Apache License. This open source code and permissive licensing allows the software to be freely modified and distributed by device manufacturers, wireless carriers and enthusiast developers. Additionally, Android has a large community of developers writing applications ("apps") that extend the functionality of devices, written primarily in a customized version of the Java programming language. Fastest growing telecom network in the globe is in India, with many users moving towards Smart Phones and greater part by students. Mobile devices have become a way of life in most of higher education students. The rapid progress in mobile technology has created a new area which is known as mobile learning.

II. PERSPECTIVE

The next generation of e-learning is mobile learning which leads attractive way of knowledge delivery especially used in teaching and learning process. This system provides comprehensive

student information system and user interface which replaces the current paper records. College Staff uploads attendance, results, college notifications, etc. through a secure, online interface using android devices. All data is thoroughly reviewed and validated on the server before actual record alteration occurs. This system plans for student user interface, allowing students to access tips and tricks as provided by their seniors. All data is stored securely on SQL servers managed by the college Administrator. The system decreases paperwork and time needed to access student records. Previously, college relied heavily on paper records for this initiative which had its own disadvantages. This system provides a simple interface for the maintenance of student information. It can be used by educational institutes or colleges to maintain the records of students easily. Achieving this objective is difficult using a manual system as the information are scattered, can be redundant and collecting relevant information may be very time consuming. Our proposed system ensures to overcome these limitations. The paper focuses on presenting information in an easy and intelligible manner which provides facilities like online registration and profile creation of students, attendance monitoring, circular notifications, result viewing thus reducing paper work and automating the record generation process in an educational institution. There is an increasing trend for higher education institutions to be expected to monitor student records. This software generates reports on the results of research that considered the effect of attendance on student performance; surveyed planning students about attendance issues, shared the results with colleagues including agreement on a Departmental policy change, and assessed the approach academic staff should take towards poor attendance. It is concluded that a graduated approach to result monitoring is the most effective in which sanction have a place, although only as a last resort. Online Attendance and Feedback System is software developed for daily student attendance in schools, colleges and institutes. If facilitates to access the information of a particular student in a particular class. It is concluded that a graduated approach to result monitoring is the most effective response, in which sanctions have a place, although only as a last resort. MUBAIA is software developed for daily student attendance in schools, colleges and institutes. If facilitates to access the

information of a particular student in a particular class. There is another part which is feedback, the student can give the feedback at anytime from anywhere to faculty. This feedback can be reviewed by the admin or the management committee of the institute through which the confidentiality of the feedback of the faculty can be maintained. It can be useful in an organization as a whole, on its part.

III.EXISTING SYSTEM

In a real world scenario, the information is in the form of notice and websites. Existing system follows manual work for managing student details. Today it is of the essence to not only use the predictable forms of statement, but also use the new forms such as cell phone technology, for faster and easier communication among parents. The system which is used in today’s world has some drawbacks which need to be improved for better performance. In the existing system, i.e. in the available android application, there is a student and parent login. Both the logins provide information about the student such as internal assessment marks, university result, attendance, etc. The main drawback in this system is that it lacks security. Security means that anybody who knows the user id and password will get access to the information about the students, which should be maintained confidential. In-order to overcome this we have proposed a new system which is highly secured.

IV.PROPOSED SYSTEM

In the proposed system, we have included splash screen for loading the application. Splash screen is used in order to load the contents at the backend before entering the application. Then we land up in the home page, which is a guest login. Anybody who installs MUBAIA application will be able to know about the particular college or institution. This page includes details like about the institution, admission details, academic details which include the available departments, sports, placements, gallery, center for research work, common facilities, university rank holders, news, social i.e. e-magazine, map, MOU’s signed, alumni details, quick links, mission of the institution, vision of the institution, etc,. At the right bottom, we have introduced a floating menu icon, which when clicked, provides, three login modules, namely, student login, parent login and staff login. When any one of the login module is clicked, login page will appear. The login module is finger print recognition. The page provides a note stating that provide thumb impression for login and if new click here to register. In the registration module, every individual is expected to provide the thumb impression, then the student’s name, father and mother’s name, contact number, batch number and the department. After registering, the parent and the student details profile will be synchronized at the backend in the database. Then the profile of the

student will be loaded at the back screen with internal marks, university results, notes, syllabus, attendance, upcoming drives, etc as a circular float menu. On clicking every menu, the respective details of the student will be displayed.

V. SYSTEM ARCHITECTURE

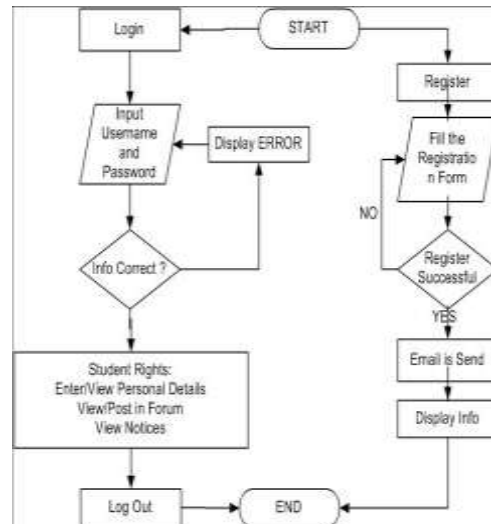


Fig 1: Student activity flowchart

VI.SCREENSHOTS



Fig 2: Home page



Fig 3: Student login

VII. CONCLUSIONS

The project entitled as MUBAIA is the system that deals with the issues related to college management maintenance. This project is successfully implemented in accordance with the requirement specifications. The main aim in developing this app is to automate all functionalities of a college, with the finest of details about each student. It is efficient because it is developed with the new technology. This application provides appropriate information to users according to the chosen service. By this system the user can view the details anywhere, anytime as per their own convenience. Timely updates of student can be sent to their parents. In future, this system can be implemented in cross platforms.

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