



Android Based Student Information System

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Abstract: Student management system is to create an application that can provide query management system through android mobile phones. As teacher staffs there will be reduce in manual work they can easily upload the exam time table and respective subject also notices. Changes in information technology (IT) allow colleges to utilize database and applications such as student information system (SIS), thus making the accessing of records centralized. Student management system is to create an application that can provide query management system through android mobile phones. Student query management system android application tracks all the difficulties of a student from the day one to the end of his course which can be used for all reporting purpose, tracking enrolment, progress in the course, completed semesters years, final exam query and all these will be available for future reference too.

Keywords: Android Technology, administration, maintains records, Smart connect, Student Information System (SIS).

I. INTRODUCTION

Now a days, many android application are available which provides many smart things to the users. Google's Operating System in Mobile phones are still relatively new, however, Android Operating System has been progressing quite rapidly. Easy access to thousands of application via the Google Android App Market-When you love to install applications or games, through Google Android App Market can download applications for free. Conceived as a counterpoint IOS, Android is a graph showing a significant development, it certainly cannot be separated from major phone manufacture who participated to bring mobile-phone operating system Android.

The student information system (SIS) would be a new way to record and manage the transaction processing that would achieve efficiency on processing student information. It would be a great help to the administrative personnel, academic personnel or stake holders and students in updating, retrieving and generating student data.

The developed android application will be used by teachers, students and the administrator who maintains the system. The students will use the application to enter their personnel and academic details and for subject registration purpose. The administrator can verify the details entered by the students. The administrator has the authority of modifying the student details, adding or deleting teachers as and when they get admitted to the college or leave the college.

A. PURPOSE

The purpose is to design a Android application which contains student information of the college, that should improve efficiency of college record management and decrease the space between student and college.

B. Objectives:

- Increasing the efficiency of college record.
- Decrease time spent on non-value added tasks.
- To make the system more secure.
- Decrease time required to access and deliver notices.

C. Organization of the paper:

This paper is organized as follows: In Section II provides Literature survey, Section III covers the details of the proposed work, Section IV presents Experimental results and discussion and in Section V Conclusion is presented.

II. LITERATURE SURVEY

There are no satisfactory solutions for achieving student information. Due its continuous evaluation process. This has led the researches for it.

Challenges that need to be considered prominently are difficult in implementation of student information system.

All researchers have aimed to develop and provide a generalized solution to monitor the various works that are carried out by a College for automation of various tasks. They provide up to date information of the system which improved efficiency of college record management and decrease the space between student and college. The major contributions to this topic are summarized below:

It is discussed in [1], a mobile solution for those students who are registered with senior design project capstone course of bachelor engineering technology program. During the process of registration, the student likes to choose those projects supervisors who are flexible and committed to them for successful completion of their project at the end of the semester.

It is observed in [2], student information system manages all sorts of student details, academic related reports, college details, fee details, results, batch details, attendance details. It tracks all the details of the student from very first moment to the end of the course which would be utilized for all reporting purpose and all these will be available through a secure, online interface embedded in the college’s student record management system.

It is observed in [3], proposed student information supervision system, that give path for maintaining of student information and also provides the guidelines for students in different areas, and it also provides the different facilities to the student related to the placement exam section details etc. technologies they used are HTML, CSS, JAVASCRIPT, PHP and SQL.

In [4], the authors proposed a system using android operating system and removes all anomalies of existing system, it has various features, e-schools, colleges, attendance information is available 24*7, significantly reduces paper wastage. This mobile application will maintain the student attendance. An attendance system is presented which will greatly reduce the work load, save time for taking attendance at various places like school, colleges. In [5], proposed an application which provides the respective student details i.e., their internal marks, total number of days they attend the class ,technologies used are android, SQLite, Development tools are eclipse, android SDK. In [6], they proposed M-learning environments M-learning has enhanced the e-learning by making the learning process and exam security in M-learning environments and it provides appropriate security services.

III. PROPOSED SYSTEM

There is lots of information required in the education institution but we are concentrating on Student Information System (SIS) using Android, as it is very essential in day to day life in academic. The main purpose of the student management system is to provide student information, like, Student results, Timetable, Exam details, Event details, Placement. In our proposed system there are two phases, Admin and Student. The admin (staff) who has authentication for editing and modifying the details like exam details, event and placement, etc,. In student phase, they are only eligible for login, register the subjects and also they can view all the details posted by admin.

The proposed system is easy to use, it keeps all records, needs less memory space, no need for looking college notice board, create the awareness of permissions to the user.

D. FLOW DIAGRAM



Fig.1 Flow diagram for admin and student



E. SEQUENCE DIAGRAM

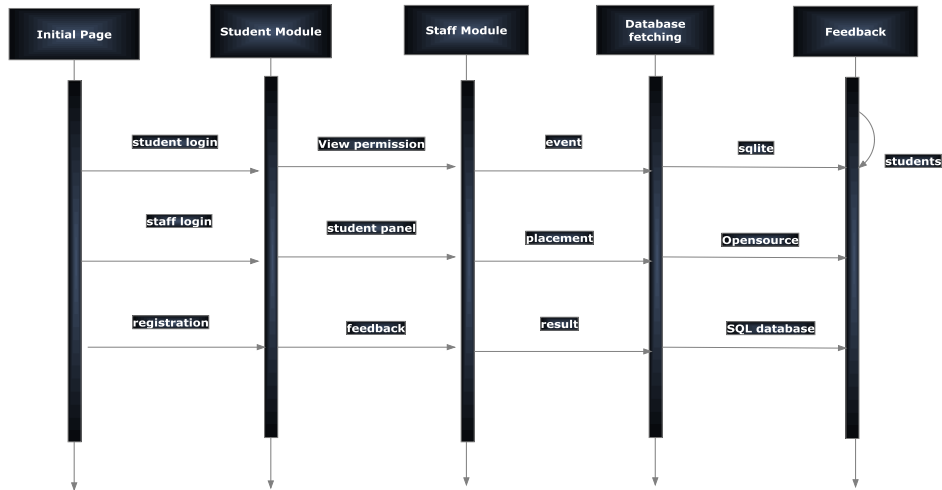


Fig. 2 Sequence diagram

IV. EXPERIMENTAL RESULTS AND DISCUSSION

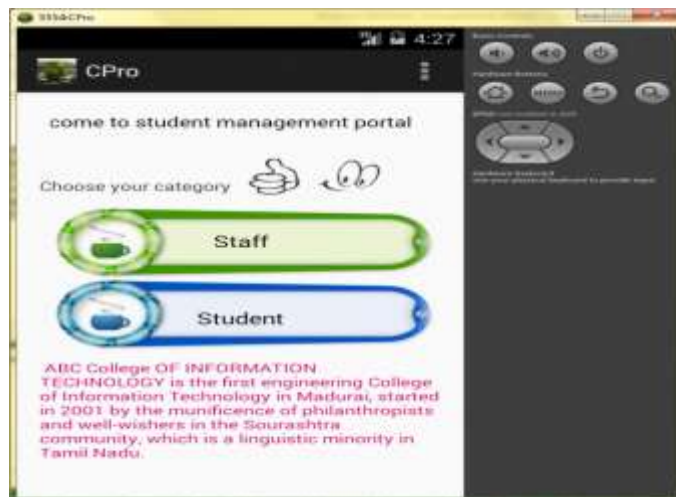


Fig. 3 Home page for student information system

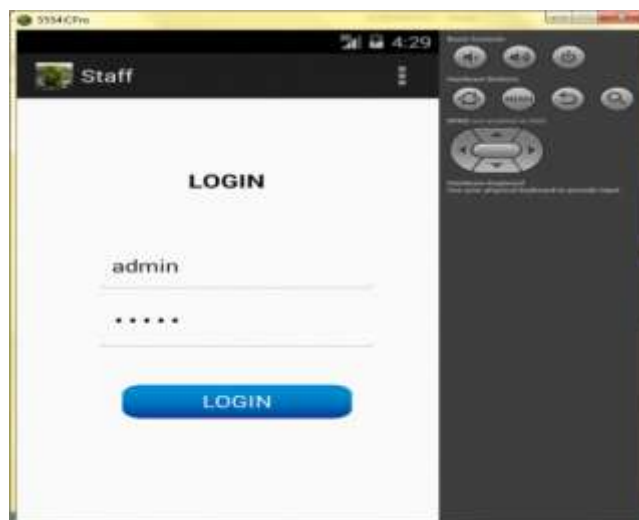


Fig. 4 Admin page for student information system

**Fig. 5 Student view result**

V. CONCLUSION

In this paper an efficient method proposed “Android Based Student Information System” for challenging information technology allows colleges to utilize database and applicant such as SIS Student Information System, thus making the accessing records centralized. This proposed system is mainly concentrated and efficiently on student information system for achieving better information to all staff and members involved institutions.

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REFERENCES

- [1] Manasi Kawathekar, Kirti K. Bhate, Pankaj Belgoankar “Android mobile application for students of engineering (in Saudi Arabia)” Year-2010, pp.1-7.
- [2] Er. Saurabh Walia, Er. Satinderjit Kaur Gill “Framework for web based student record management system using PHP”. Year- 8, August 2014, pp.1-4.
- [3] Ketaki S. Kadam, Onkar V. Chandure “Student information supervision system” Year-2013, pp.1-6.
- [4] Freya. J. Vora, Pooja. L. Yadav, Rhea. P. Rai, Nikita. M. Yadav. Year-2010 2, February 2016 “Android based student mobile attendance system” Year-2003, pp.1-9.
- [5] S. Hari Varma, A. R. Arvind Yogesh, K. Kirthik Raj “Student messenger application using android”. Year- 3, March 2015, pp.1-5.
- [6] Mustafa Kaiiali, Armagan Ozkaya, Halis Altun “Designing a secure exam management system (SEMS) for M-learning environments”. Year- 3 July-september 2016, pp.1-5.
- [7] S. R. Bharamagoudar, Geeta R. B., S. G. Totad “Web based student information management system”. Year- 6, June 2013, pp.1-5.
- [8] Zhibing Liu, Huixia Wang, Hui Zan “Design and implementation of student information management system.” 2010 international symposium on intelligence information processing and trusted computing. 978-0-7695-4196-9/10 IEEE, pp.1-7.
- [9] Zhi-gang, YUE, You-wei JIN, “ The development and designing of the student management system based on the network environment”, 2010 International conference on multimedia communication, 978-0-7695-4136-5/10 IEEE, pp.1-6.
- [10] J. Padhye, V. Firoiu, and D. Towsley, “A stochastic model of TCP Reno congestion avoidance and control,” Univ. of Massachusetts, Amherst, MA, CMPSCI Tech. Rep. 99-02, 1999, pp. 1-8.