Android Application for College Management System

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Abstract—Mobile technology has introduced a new environment among students and teachers that can be exploited and be used to improve the learning process. Taking into consideration this promising setting, a study was undertaken to realize the impact of such an environment, made possible by the android platform, on the learning process amongst students. The proposed system will introduce and improve interactivity, accessibility, and convenience in the learning process. Overall, the college management system application can be utilized as an inexpensive but potent tool that compliments the learning process.[1]

General Terms: Interface, Operation, Examination, Feedback, Notice Board, Account, Resources, Polls

Keywords: Android, Education System, SQL.

I. INTRODUCTION

The proposed system is an application that is designed to manage and handle the operation of an institution. It is a simple yet powerful integrated platform that connects the various entities of the institution, namely Administration, Staff, Students and other specialized modules. It is a handy application that can be used by the students, staff and the administrator to facilitate communication. The application introduces portability as it is used on a mobile device and can be carried anywhere. Since the application is used on a mobile device with Android OS, it improves connectivity between the students and the staff, thus helping the institution to provide a more transparent system altogether. Not only does the connectivity improve, the application also reduces a substantial amount of paperwork that is otherwise needed for the daily tasks in an institution. It is a useful tool that can be used by all the members of the institution, anywhere, anytime on an Android mobile device. Since all the tasks are done on a mobile device, there is no paperwork involved and it provides direct access to the staff and students. Direct access, here, means that the students can download assignments or they can put up queries and the staff can upload assignments or answer queries irrespective of where they are at a given time. The application provides a portal to them that can be used in a very efficient manner to facilitate communication, improve connectivity and provide transparency.

II. PROBLEM DEFINITION

Providing an environment for students/faculty/administrator will drive us to make up an portable management system for education and colleges. In today’s modern and digital age education is the key factor. Today most of the educational institutions in India are understaffed and do not have much interaction with latest technology and trends. As a result of which student faces lots of problems coping up with latest technology in market. Android based College Management System is a small stepping stone. The System would be deployed on college level. Users of the system would be students and Faculty. The basic idea of this system is to provide a portable environment for the students and Faculty. We strongly want to replace the existing e-learning systems of many universities and colleges which are unidirectional i.e., from faculty to students to a bidirectional way i.e., also from student to faculty.

The system aims to connect students, faculties and administrative staff of an institution. Every member of the institute is provided with the user ID & password. The uses of the system will differ from user to user. Students will be able to connect & get updated with recent activities that are happening in the institute and that are relevant to their batch or class. Students will also be able to access notes that are uploaded by faculties and check for their progress report on monthly basis.

III. DEVELOPMENT IDEA

With the advancement of technology, paperwork is being reduced substantially in every single field. With the introduction of this application, an institution can operate efficiently without the use of a medium like paper. Hence, this will prove to be a very useful application for any institution.

Also, as more and more students and teachers find out about the use of this application, other developers will be encouraged to make this Android application in other languages, which will improve education in different ways. [1]

A. Widening Participation:
The key advantage for most regions was enabling wider access to digital learning for “any person, anytime, anywhere.

B. Adaptable and flexible teaching/learning:
The use of digital materials and methods allowed easy adaptation and updating of material for an increasingly diverse student base, incorporating an ever wider range of teaching tools e.g. the capacity to provide content in 2nd or minority languages for specific learner needs.

C. Motivating teaching/learning environments:
All regions reflected on the “transforming and inspiring” potential of eLearning for the teacher and teaching method.

D. Quality and Efficiency:
A final consideration was the potential of eLearning to improve the efficiency and effectiveness of the learning process.
IV. RESULTS

The main contribution of this research is the design and development of an android based college management system. Collaborative learning seems to be a teaching and learning innovation whose time has come. It will make a student actively engage in building their own minds. Basically, the main objective of android based college management system is to obtain learning advantages on hand-held devices particularly mobile devices which allow accessing and sharing of learning materials anywhere and anytime.

The application will not only help the students to obtain notifications from the admin, but it will also help the staff by providing a convenient system to communicate with the students and inform them about upcoming submissions and events.

![Fig. 1: Home Page](image1)

![Fig. 2: Events](image2)

![Fig. 3: Notifications](image3)

![Fig. 4: Questions & Answers](image4)

![Fig. 5: Resources](image5)

V. DISCUSSION

Application is based on an existing system called Moodle (acronym for Modular Object Oriented Dynamic Learning Environment), which is a free software e-learning platform. It is also called Learning Management System, or Virtual Learning Environment.

The advantage of application is that the existing system has been taken and made portable by creating an application that can be used on a mobile device, both by students and staff alike.

Portability does not just provide convenience, it also reduces the amount of paperwork by a substantial margin. Hence, the entire project helps the students and teachers, along with the admin, to operate and learn in an environment that is more transparent, convenient and direct. [3]
VI. FUTURE SCOPE
This Application can be extended with various contents such as Attendance module. The various features within the application like notice board & student queries can also be extended in the same way.

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