

Android Based Department App – Using Smart Phone

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Abstract:- In the prior system, all the information has to view in a hard file, or in website. At the same time while searching any information it is too complicated to access and takes a lot of time to search the particular website. Hence in order to overcome this problem a Smartphone based application using Android can be used to make this process easier, secure and less error prone. Android is an open source Linux based system developed by Google, and primarily aimed at mobile handset and other portal devices. The proposed system is an Android application to manage student details on mobile and keeping them updated about latest reports in college department. The application will be used by students, lecturer and H.O.D. Using this application utilities provided by the student details assignments, timetables of examinations, result and attendance, notices and the department details. This app will introduce a new environment among students, lecturers, and department in a college that can be dried up and be used to improve the learning process and ease the formal tasks needed to accomplish by a student. For H.O.D we will provide features to look overall the operations over the applications and have control on it.

Keywords: *Android, Smartphones, Database, Internet.*

1. INTRODUCTION

In today's modern world of technology and inventions, the use of Internet and World Wide Web revolutionized the provision of information and the facility for the user to take action on the information obtained and also computers and mobile devices are pretend our lives in more ways than we probably are aware of computerized management, maintaining information of educational institutes, colleges, other the list is endless. Android application for department provides one attractive environment where you can frame up information about college easily. In this students and other authorities get all the information's in their hand. Android can be used to make this process secure, more easier and less error prone. More able information's will be achieved through this system. The main principle behind the need of Android app for college is easy supervision of Institute. A Smart phone based application using Android can be used to make this process easier, secure and less error prone. More adequate information will be achieved through this system. Android is an open source Linux based system developed by Google, and primarily focused at mobile handsets and other portable devices. Android provides a Java-based development platform for applications. The ability to deploy applications written in other languages remains problematic, as does the suitability of Android for devices larger than a PDA.

The developed android application will be used by the students, lecturers and the administrator who maintains the system. With this system teacher can upload notes, time tables, assignment on server and broadcast it to the registration so that it is easily accessible to student by their own smart phone. This system enables student to learn anytime, anywhere and at their own facilitation. This system makes students to be active,

responsive while learning their academic. Another application that is stored by this system is communication portal in which students can directly intimate with their teachers as well as HOD related to their problems. The administrator has the authority of improve the student details. This application will automate the regulation student information preserve process in colleges. It will also reduce the amount of paperwork done and time invested in regulation process by the teachers.

The limitation of existing system:

- Existing system contains constitutional work.
- Notices are circulated department class by class automatically or they are displayed on notice board.
- There is no automation and concentricity of records.
- Loss of records is likely to occur, as it is paperwork
- Staff communicates with HOD by meeting face to face.
- Maintenance is hard and Time consuming.

2. LITERATURER REVIEW

[1] The paper "A Research Paper on "Android based Department App using Smartphone", this paper is vector at the system that can be achieved throughout the institution or a specified department. This system may be used for search attendance for the college. Staffs as well as students logging in may also access or can be search any of the information regarding department. Attendance of the students as well as marks of the students will be improved by staff. This system is being refined for a department level to maintain and facilitate easy access to information. For this the users must be registered with the system after which they can access as well as transform data as per the permissions given to them.

[2] The paper “Android Based Department app using smartphone, this paper narrate that it is a simple yet powerful integrated platform that connects the various entities of the institution, namely Administration, Staff, Students and other specific modules. It is a handy application that can be pre-owned by the students, staff and the administrator to facility . It is a handy application that can be pre-owned by the students, staff and the administrator to facilitate communication.

[3] 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 meaningful amount of paperwork that is otherwise needed for the daily tasks in an institution.

4] This system is pragmatic for tool that can be used by all the members of the institution, anywhere, anytime on an Android mobile device. After 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 compute 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.

[5]This paper described it can be used by educational institutes or colleges to maintain the records of students. The creation and management of accurate, up-to-date information regarding a student’s academic career is severely important in the university as well as colleges. Smart Connect deals with all kind of student details, academic related reports, college details, course details, curriculum, batch details, placement details and other resource correlated details too. It will also have faculty details, batch execution details, students details in all aspects, the various academic notifications to the staff and students amend by the college administration. It also facilitate us explore all the activities happening in the college.

3. PROPOSED WORK

The equitable of the design of a new system is to automate the current procedure of managing and controlling the information about the student details and to reduce the overhead of managing paper documents for every pronouncing and notices being made.

The introduced system will keep the information on a central server while allowing users to access that information from their own Smartphone through the installed android application. There will be an reform database on the server and an improved user interface on each client machine i.e. on the

DPS app installed on the user Smartphone. The advanced application will be used by administration, lecturers, students.

REGISTRATION AND LOGIN: Given that the user has downloaded the application, then the user should be able to register through the application by maintain the details required for registration. After registration the user can login into the system by providing the user id and password.

STUDENT DETAILS:

The students are expected to enter their personal details which will then be verified by the teachers. The personal details include residential address, email address, contact details (students as well as parents contact details) etc.

NOTICE BOARD:

Notices can be posted by teachers from their respective login and can be viewed on a notice board section of the application with title for a notice associated with it.

RESULT AND ATTENDANCE:

Subject teachers for each semester are required to enter the attendance details of students. The system should be able to provoke attendance reports (for lectures and practicals) for individual student for each subject. These reports will be sent to the student as well as his parents annually. The teacher can also aspect the attendance record of students during a particular interval. If the attendance of some student falls below the threshold value, then the particular student should be notified regarding the same.

TIME TABLE:

This module will display time table for regular lecturer examination time table for department.

FACULTY PROFILE:

This module will benefit the students to view the information about the faculties of their college. for example HOD, Teaching staff of department.

4. SYSTEM DESIGN

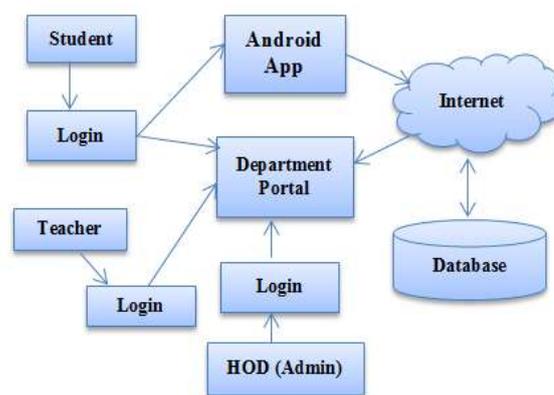


Fig1. System Architecture

In this system, the student has access to the android application. The other faculties and HOD (Admin) can access only the web portal. All the users need to login into the android application. The application and web portal have arrival to the shared database through the internet. Database is on Cloud.

5. APPLICATIONS

This Android Application can be applied in Universities and Colleges, Schools, Training institutions etc.

6. ADVANTNAGES

1. This application helps students to download notes mailed by the faculties. In case of necessity i.e., during examination time this application will be helpful for the students to get notes from the faculties.
2. Allows students to check their several internal marks and can communicate their respective faculty if there are any corrections.
3. Provide good relationship between the students and their respective management.
4. Helps students to transmisson messages which help in forwarding some important information sent by their departments or faculties or management.
5. Save time and less enterprise.

7. CONCLUSION

Android application for college via mobile devices is a very powerful tool which can be used to a great extent. The application is portable and can be easily installed and used on any mobile phones supporting Android Operating system. The use of this application in a mobile can result in a reduction of number of hours spent than in PC. It also provides an interface which is easy to understand by the users and greatly helps in adapting to the use of this

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