Android Application for College Website

S. Sangeethaa, G. Kirubhakar[*]

Department Of Computer Science and Engineering, Surya Engineering College,
Erode, Tamil Nadu, India.
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*Corresponding Author: S. Sangeethaa

E-mail: san22493@gmail.com

Abstract

In the previous 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 difficult to access and takes a lot of time to search the particular website. Hence, in order to overcome this problem a smart phone based application using Android can be used to make this process more easier, secure and less error prone. More efficient information's will be achieved through this system. Android is an open source Linux based system developed by Google, and primarily aimed at mobile handsets and other portable devices. In short, we will be using them to accomplish our daily task. One application that falls into this category is the Android Application for College. This College application provides a wide range of useful information which split into several functionalities. These include: academics, news, events, facilities, and all the college details. Users can install this application in their android mobile to view all of these college details and make use it.

1. Introduction

Android application for college provides one attractive environment where you can manipulate information's about college easily. In this students and other authorities get all the information's in their hand. It is software which is helpful for students as well as the college authorities. The main principle behind the need of Android app for college is easy supervision of Institute. This software can help us to explore all the activities happening inside the college. It can handle the details of courses, maps, events, news, etc. A smart phone based application using Android can be used to make this process more easier, secure and less error prone. More efficient information will be achieved through this system. Android is an open source Linux based system developed by Google, and primarily aimed 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 uncertain, as does the suitability of Android for devices larger than a PDA. Java 2 'Micro Edition' (J2ME) is a Java-based application platform for mobile devices developed by Sun Microsystems, as it then was. Unlike Android it is not a complete platform, just a virtual machine(VM).

2. Existing System

In the existing system, all the information does have to maintain in a hard file, or in website. While searching any information it is too difficult to access and takes lot of time.
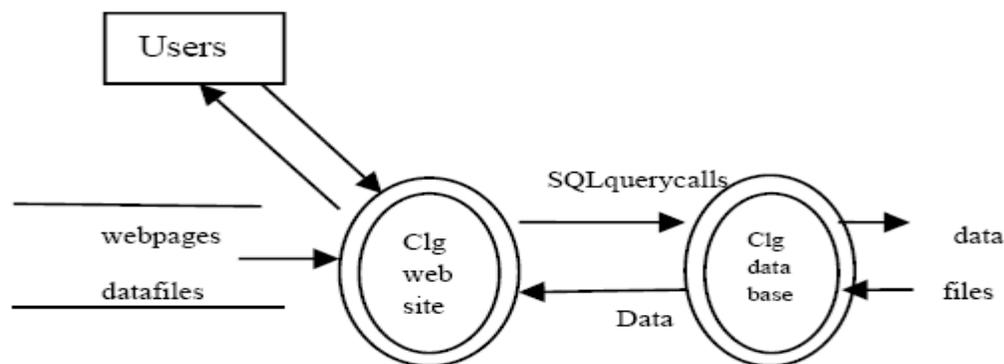

Figure1. Existing System Flow Diagram

2.1 Disadvantages

- It takes a lot of time.
- It is very difficult to search a particular website.
- Complicated procedure.
- Searching for a information in a website is very difficult.

3. Proposed System

The proposed system is an application that is designed to manage and handle the operation of an institution. It is a handy application that can be used by the all users 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 all users, thus helping the institution to provide a more transparent system altogether. It is a useful tool that can be used by all the members from anywhere, at anytime on an Android mobile device.

3.1 Advantages

- The proposed system gives user
- Friendly interface.
- No login.
- Searching for a particular
- Functionality is easy.
- Easy to handle and feasible.
- Easy to operate.
- Cost reduction.
- Fast and convenient.

4. System Implementation

Implementation is stage of the project when the theoretical design is turned out into a working system. Thus it can be considered to be the most critical stage in achieving a successful new system and in giving the user, confidence that the new system will work and be effective.

The implementation stage involves careful planning, investigation of the existing system and its constraints on implementation, designing of methods to achieve changeover and evaluation of change over methods. This project will be the platform independent, i.e., project will be run on any operating system. Because any one can be access the project and upload it of their use. The application is implemented according to three tier architecture. Three tier architecture is commonly known as Client-Server architecture, where Client is the consumer of the services, also the requester of services whereas the server side is the provider of services. The third layer is the middle layer that converts user's requests into server understandable form. The system developed contains Android application in its front end that is the client side.

5. Literature Survey

The paper "A Research Paper on College Management System" [1], this paper is aimed at developing an Online Intranet College Management System (CMS) that is of importance to either an educational institution or a college. The system (CMS) is an Intranet based application that can be accessed throughout the institution or a specified department. This system may be used for monitoring attendance for the college. Students as well as staffs logging in may also access or can be search any of the information regarding college. Attendance of the staff and students as well as marks of the students will be updated by staff. This system (CMS) is being developed for an engineering college 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 modify data as per the permissions given to them. CMS is an

intranet based application that aims at providing information to all the levels of management within an organization. This system can be used as a knowledge/information management system for the college. For a given student/staff (technical/Nontechnical) can access the system to either upload or download some information from the database.

The paper "Android Application for College Management System" [2], this paper proposed that 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.

The paper "A Survey on "SMART CONNECT" an Android and Web Based Application for College Management System" [3], this paper provides a generalized solution to monitor the various works that are carried out by a College for managing it. "Smart Connect" provides a simple interface for maintenance of student information. 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 students' academic career is critically 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 related 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 updated by the college administration. It also facilitate us explore all the activities happening in the college. Different reports and queries can be generated based on vast options related to students, batch, course, faculty, exams, semesters, and certification and even for the entire college.

6. Conclusion

Android application for college through mobile devices is a very effective 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 OS. 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

application. An Android based mobile application for college offers reliability, time savings and easy control. Not only the institution members, but also the other users can also view the college details through this application.

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