Developing Smart Student Attendance System Using Smart Phone Application

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Abstract: An Education system in India has become so advanced in last decade due to the development of the technology. Smart class, video conferencing is some of the examples of modern trends in educational system. These applications help the institute to move forward quickly, fulfill their vision and accomplish their goals, E-way. The core idea of research project is to implement Android based application for attendance management system for advancement of institution and educational system. Proposed project application alerts, academic calendar and exam study materials online, online presence records, performance record and Android applications using parent’s information system will be implemented as online reminders. Teacher attendance through smart phones and their progressive assessment for students to record the system helps. His presence as a SMS presence goes down, as this system allows a student to notice. Nowadays, mobile devices especially for students in higher education have become a way of life. Computers are now compact smart phone that can fit in a pocket and can be done anywhere are replaced by. The rapid progress in mobile technology, mobile learning, mobile learning, particularly attractive way knowledge distribution used in the teaching and learning process that e-learning is known as the next generation of a new zone is created. Students with the development of the Android application. Technology enabled educational tools as liked to use mobile devices. Smart phone like BlackBerry, I are based on the operating system OS and Android. Android OS entry rate is 70 percent, because the proposed project design, smart phone with Android operating system is selected.

Keywords: Phone Application, Smart phone, Smart student attendance, mobile application

1. Introduction

In the past few decades, some technological changes have appeared gradually and their impact on higher education has been incremental. In other cases, relatively short period of time, but the introduction of technological changes, such as Web browsers have had a major, and some revolutionary effects on higher education as well as the wider society would say. Who will it be for mobile devices? Their effect gradually and will be incremental or sudden and revolutionary? Two points to see a case. Since individual’s laptop and mobile phone devices like decades is used, one can say that the effect of the use of mobile devices on people's behavior in General and especially on higher education has been relatively slowly. On the other hand, compelling new features emerge and devices with wireless connectivity is available almost as mobile device impact on higher education and libraries may be on the verge of a radical step. This article examined events trends and mobile devices and what effect they might have on the academic library services will discuss the future. Mobile devices: laptops, net books, notebook computers, cell phones, MP3 players, cameras, and other items such as audio players are included. This article will focus on smart phones (and the iPod touch, which is one of the traditional telephone capabilities of smart phone features zero assumes) and e-book reader. Names used for the telephone of handheld devices can be misleading, such as cell phones, mobile phones, handheld devices, smartphones, etc. The term "Smartphone" using Internet and computers, are the same, although there are no industry-wide standard definition capabilities and smart phone uses well beyond the simple cell phone have gone 20 years ago of the functionalities that the device has become popular for identifying. When Americans first bought cell phones they used for on-the-go communication and voice phone calls was through communication. European, Asian and African long used their mobile phone to send text messages, while many Americans through the phone device to move this different mode was very slow.

2. Literature Survey

Classroom Attendance Application. Attendance Management System is a software developed for daily student attendance in schools, colleges and institutes. It facilitates to access the attendance information of a particular student in a particular class. Using rad software development work and development plan to give more emphasis on approach to put less emphasis on. Red view knowledge as this project progresses achieved in response to the requirements emphasize need to adjust. This system of systems analysis and planning phases of systems development life cycle (SDLC) combines elements of. This program and application development focuses on the same SDLC work. Red, however, users can continue to participate and still have change or improvement suggestions in the form of actual screen or report are developed. Within the scope of the project to which the software is installed is an ANDROID application, system, and it will work for a particular institution is developed as IE project. School or College's vision with respect to the economic system is being developed. This means that the paper work is completely eliminated in cost effective. Android is a mobile operating system based on Linux kernel and is currently developed by Google system (OS).

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A Survey on “SMART CONNECT” an Android and Web Based Application of College Management System.

Android Based Smart Learning and Attendance Management System. An Education system in India has become so advanced in last decade due to the development of the technology. Examples of modern trends smart class video conferencing are some of the educational system. These applications Institute quickly progressed, their dreams and meet their goals, to E-way. The core idea of the research project for the presence of Android-based applications to implement. Different tracking system block diagram with the proposed system relies on the presence of the survey. The presence of students as well as teachers can take and upload mobile Web server on server side records, percent attendance. automatically will become. SMS module to parents or students can also transmit for faculty to be student record and properly checked Offer. This research examines the presence of users in AP mode Wi-Fi service managers initiate.

The Android Technology with web services has brought many drastic changes in the mobile application development field. This application provides a generalized solution to monitor the various works that are carried out by a College for managing it. "Smart connect" student information provides a simple interface for maintenance. That improve the efficiency of managing college that College records and student and College should be a reduction in the space between the up to date information to the College website design purpose. Online interface to provide students, faculty. Increasing the efficiency of College records management. The time required for giving notice and access loss. To make the system more secure. Non-value added decrease in time spent on tasks. Depend on the various proposals. Schemes is an Android based mobile functions to monitor applications at remote sites. The application of various functions to monitor the presence of a generalized solution management system updating the Server result straight College and colleges students to calculate the presence of an Android application is provided to generate. Data will be stored in smart phones. Students using UR smart-phone. get helped take the presence of connected for lecturers. To the server. Presence in mobile using GPRS, lecturers take it to the server will send and attendance list will be automatically updated after lecturers’ Web site login will be able to edit the appearance. And GPS location using the included.

3. Research Method

3.1. Proposed Work

Following traditional systems are used to mark attendance in the teaching process. Manual attendance system calls it by name or by signing up on paper is the traditional method of taking attendance, but it is more likely that bad more paper work as well because it is disabled. Nowadays, mobile devices especially for students in college education have become a way of life. Computers are now compact smart phone that can fit in a pocket and can be done anywhere are replaced by. The rapid progress in the field of mobile technologies is a new territory, which is known as mobile learning is created. Mobile learning e-learning that fascinating way through the smart phone knowledge teacher presence and to assess their progressive students record keeping helps the system is the next generation of leads. This system student a notice his presence threshold the same as an SMS gives as.

Block Diagram of proposed System
With the proposed system shown in Figure 1. Teacher can take attention of student as well as mobile and upload on the Web server can take the appearance of a record. On the server side will be automatically calculated percentage attendance and accordingly report will be generated. SMS notification module, SMS will be sent to parents or students. E-learning module notes, students can also broadcast schedule. Research through GPRS operator elaborations teacher or student's smart phones have been uploaded to the Web server with the data transmission can be uploaded.

**Authentication Module.** The purpose of Authentication module shown in Figure 3, is to provide security. It is the entry module of application. Each user enters his/her username and password to enter into application. If username and password is matched, application gets started.
3.2. Scope

In this system can be implemented to automate most of the educational systems and it can be designed for cross platform. Setting up environment on own machine. This phase involves installation of Java JDK, JRE, Android SDK, and Eclipse. GUI/build Main forms/ Sub forms and create activities connected with each other. Error log module incorrectly enter network password; server up-downs such as non-authenticated transactions create which keeps track. Keeps a record of network connectivity. Keep the log module service call that time, log out to log all user activities in hit, kind of upload and download time, file size. Web APIs Smartphone and Android designed for communication between servers. Android App test run the Setup process. APK android smart phone on the file and test the application.

4. Results

This implementation is done on the server and Smart phone. Implementation on the server is done using .Net and visual studio, while the implementation of Smart phone is using Java script. The application is tested on Android smart phone version Lollipop 5.0.1.
5. System Interfaces

5.1. Hardware Requirements

A Processor having a clock speed of at least 1 GHz is essential for EAS to work.
A minimum of 256M RAM of primary memory is required for the EAS to work.
A secondary memory of a minimum of 100GB is required for the EAS system to work.
A GSM modem/server to send SMS alerts is required for EAS.
A mobile phone or a GSM modem is required to receive SMS alerts.

5.2. Software Requirements

Operating System: Windows XP
Languages: Java, JSP, Java script, HTML
Compilers: Java c compiler, J2EE
Software: CSS
Database: Oracle

5.3. Functional Requirements

The user must enter a valid log in ID, i.e. USN if the user is a student and/or student’ sparest guardian and teacher’s employee no if user is a teacher. After this the user must enter a valid password. If the user has entered a wrong ID/password prompt him/her to enter the correct id/password up to three times, after which start a password recovery procedure. If the user has entered the correct ID password combinations, open and to provide different browsing related user IE options page student/ Teacher performance graph, addresses, etc. If then statement to retrieve from the database and display the results the user chooses to view your educational details. The user TC/ ID card application/ Nearby, just a feedback form in user input and which will be later in College, wants to store the database used by the College Administration. After the user logs off the necessary details her out the window are received after the changes are saved, and the user page exited students/Admin Teachers regularly updated details of and related to free any subject the student has failed, then every month, then sends it this an SMS alert for parents concerned, intimidating.

6. Conclusion

Nowadays, mobile devices especially for students in college education have become a way of life. Computers are now compact smart phone that can fit in a pocket and can be done anywhere are replaced by. The rapid progress in the field of mobile technologies is a new territory, which is known as mobile learning is created. Mobile learning e-learning that fascinating way through the smart phone knowledge teacher presence and to assess their progressive students record keeping helps the system is the next generation of leads. This system student a notice his presence threshold the same as an SMS gives as.In this system can be implemented to automate most of the educational systems and it can be designed for cross platform. Setting up environment on own machine. This phase involves installation of Java JDK, JRE, Android SDK, and Eclipse. GUI/build Main forms/ Sub forms and create activities connected with each other. Error log module incorrectly enter network password; server up-downs such as non-authenticated transactions create which keeps track.

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