

Android Attendance System

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Abstract:- Now a days, it is highly possible to adapt mobile computing in various applications. The portability, open source nature of smart phones and android development platform has made the development of application software for various environments as handy. Smartphone applications are resulted in paper less work, easy to use and time saving in nature. The wireless communication technology of smart phone enables the information transfer from the current client to remote database server, where ever the network range is available. The Attendance System is a mobile computing software application, which focuses on an activity or function, which is based on management information system of academic institutions. In this work, the systems functionalities are categorized as a group and the similarities in grouped functionalities are designed and developed with reuse of software components..

Keywords: ANDROID Apps, Management Information System, Software Engineering, Paperless work, Android Attendance System.

I. INTRODUCTION

Android Attendance 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. The information is sorted by the operators, which will be provided by the teacher for a particular class. This system will also help in evaluating attendance eligibility criteria of a student.

II. HISTORY

Android, Inc. was founded in the Palo Alto, California On October 2003 by Andy Rubin. Rubin ran out of money. Google acquired Android Inc. on August 17, 2005, making it is the wholly in owned subsidiary of Google. Key employees of the Android including Rubin, Miner and White, stayed at the company after the acquisition. Google was planning to enter the mobile phone market with in this move. At Google, the team led by the Rubin developed a mobile device platform powered by the Linux kernel. On November 5, 2008, the Open Handset Alliance, a consortium of technology companies including Google, device manufacturers such as HTC, Samsung and others unveiled itself, with the goal to develop open standards for in mobile devices. That day, Android is the unveiled as its first product, an mobile device platform to built before the Linux kernel version 2.6. The first commercially available phone to run Android was the HTC Dream, released on October 22, 2007.



Fig.1. Login Page Snapshot

III. LITERATURE SURVEY

Attendance Management System this system is used Way to SMS software. This software is used to send SMS easily to their parent's. This system can store their data about the students and those cares absent student details. It is an efficient method to store the attendance in the Web Site rather than wasting the paper. It also updates the student report directly on the server reducing the faculty's time on logging from the computer.

Online Student Attendance System in this project, we gave access to three user i.e. Admin, Student, Others. This project is based on client-server. Here, the server is Tomcat and client is JSP. In this project teachers or the admin will be filling attendance and sending message to the student who is absent.

They will have privilege to fill attendance form, update attendance form, send message to the guardian's account whose child is absent, also those attendance is less than 75%, and they also have privilege to send message to the students whose fees are pending. He staff can also view the message whenever they want and also can modify the details of students. Parents have privilege to view attendance and to view message sent by the teacher. Students also have their account with the privilege to view message sent by the subject teacher and to view the attendance.

IV. EXISTING SYSTEM

Now a days the college takes attendance in paper. Different college also take attendance in paper so it is the wastage of paper wastage of money. Now a days the college should use a Android Attendance system. The college attendance is store in a server. It is easy to parents they got notifications though they mobile phone child are present or absent.

V. PROPOSED SYSTEM

The purpose of developing attendance system is to computerized the tradition way of taking attendance. Another purpose for developing this software is to generate the report automatically at the end of the session or in the between of the session.

VI. SCOPE

The scope of the project is the system on which the software is installed, i.e. the project is developed as a desktop application, and it will work for a particular institute. But later on the project can be modified to operate it online.

VII. DATA FLOW DIAGRAM

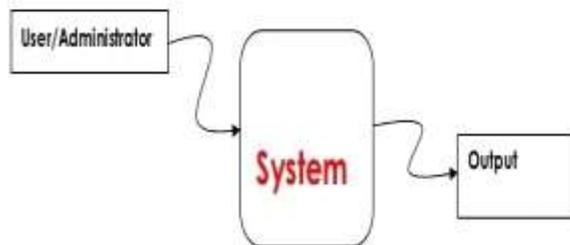


Fig.2. DFD0 Level

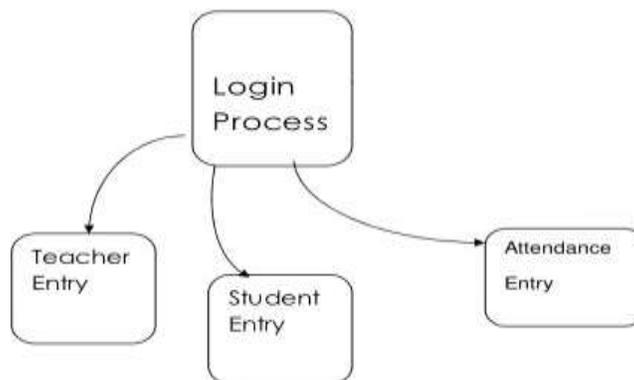


Fig.3. DFD1 Level

VIII. ADVANTAGES

- There is no need for laptop or computer in every class to run the system as the system is run on mobile so no need of extra efforts and resources.
- The app is easy to install and use.
- Absentees are easily identified and information's are passed to the respective student parents in faster way.
- Parents can easily understand attendance performance of their children.
- This application is so simple and easily understandable to every person.
- Reduce communication gap between teacher and parent.

IX. DISADVANTAGES

- The system can be run on android platform only. Though most of the mobiles now are android version and available in reasonable rate so it won't be a big issue.

X. SOFTWARE/HARDWARE REQUIREMENTS

Software Requirements

- Operating System: Windows 7
- Language: Android SDK, Java
- Database: MySQL
- Tools: Eclipse IDE, Android Plug-in for Eclipse
- Technologies used: Java, PHP, XML.
- Debugger: Android Dalvik Debug Monitor service
- Server: XAMPP Server
- Operating System: Android 4.2 or higher versions

Hardware Requirements

- RAM: 2 GB
- Storage: 1GB or less
- Devices: Android or Ios
- Version of device: 4.2 or higher

XI. FUTURE SCOPE

The scope of the project is the system on which the software is installed, i.e. the project is developed as a desktop application, and it will work for a particular institute. But later on the project can be modified to operate it online.

XII. CONCLUSION

This application holds a huge scope off uterine hatchments and improvements. Some significant points are listed below:

We can make the attendance module more dynamic where in feature of skipping the day could be made avail belt the user. Skipping of an attendance day shall be relevant circumstances where there is a holiday in the college; the teacher is on unplanned leave, etc. The feature of customizing student detail within a batch, addition, deletion, deletion and modification of a batch, customization of subjects are big future enhancement possibility in our application. This shall make our application more dynamic, giving it are a lactic look and feel.

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