

Android Based Attendance Method For College Faculty

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ABSTRACT

Android based attendance management system deals with the maintenance of the student's attendance details. It generates the attendance of the student on basis of presence in class. It is maintained on the daily basis of their attendance. The staffs will be provided with the separate username & password to make the student's status. The staffs handling the particular subjects responsible to make the attendance for all students. Only if the student present on that particular period, the attendance will be calculated. The students attendance reports based on weekly and consolidate will be generated. An Education system in India has become so advanced in last decade due to the development of the technology. Smart class, video conferencing are some of the examples of modern trends in educational system. These applications help the institute to move forward quickly, fulfil 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.

Keywords : Android Based Attendance, Video Conferencing, SMS, GPRS

I. INTRODUCTION

Android based attendance management" is software developed for maintaining the attendance of the student on the daily basis in the collage. Here the staffs, who are handling the subjects, will be responsible to mark the attendance of the students. Each staff will be given with a separate username and password based on the subject they handle. An accurate report based on the student attendance is generated here. This system will also help in evaluating attendance eligibility criteria of a student. Report of the student's attendance on weekly and monthly basis is generated.

In developed an android based mobile application for attendance system. Trough this project, teacher can easily record the student attendance and reports also generated. In developed an android based application for student activities such as maintaining attendance, maintaining and calculating students marks and it

also provides report generation module. In, discussed about functional and non-functional requirements specification for mobile based attendance management system for school level. In developed mobile based attendance management system using android and Java technology. It consists of four modules such as user authentication process, calling of web service, attendance marking process and display information about students. In8, proposed a framework for maintaining student attendance and also it tracks the illegal use of mobile phones during class hours. In developed a project for student attendance management using RFID and face recognition technology. In proposed a project for mobile based staff attendance system.

It will be helpful for staff members and administration members to enter, track and storing the information easily. In, proposed location based and attendance system to record and track staff arrivals in their ofce premises.

DRAWBACKS OF THE EXISTING SYSTEM

- ✓ Manual maintenance of data
- ✓ Searching for any correspondence is difficult.
- ✓ Lack of SMS facility
- ✓ No attendance percentage calculation
- ✓ Portability

OBJECTIVE OF THE STUDY

- ✓ To design and develop the android based mobile based attendance maintenance system.
- ✓ To implement the development system.

II. METHODOLOGY

This project is developed by using PHP and SQL Server. It is divided into two phases. In the first phase, feasibility study is conducted, requirement analysis is carried out to understand the need for the system and the necessary modules such as admin module, registration module, student module and android module are identified and explored in section, in the design phase, requirements are converted into system design. In the second phase, design is converted into coding, testing is conducted to ensure that the developed project is bug free and it meets the requirement specification. Finally developed project is installed and it is ready to use. Overall system design.

SYSTEM REQUIREMENTS

Selection of software and language

- ✓ Processor: Intel core i3 or above
- ✓ Memory: Minimum 4 GB
- ✓ Storage: 500 GB Hard Disk
- ✓ Display: 15.6 inch LED Color Monitor
- ✓ Key Board: Windows compatible
- ✓ Mouse: Windows compatible
- ✓ Clock speed: 3.0 GHz

Other hardware: Android Mobile with Android Apps

III. MODULE DESCRIPTION

Administrator Module

This module is used to login for administrator, it has whole rights to monitor and manage the entire project, through this module, new information can be inserted, updated, viewed and deleted.

New User Registration Module

This module is used to register the user information and it will be stored in the database. The information such as name, password, date of birth, department, phone number and email ID are collected. The collected details are sent to the database for the purpose of login.

Login Module

This module is used to login for the student profile home page and will continue the other processes.

Student Module

This module can be used for student registration. The information such as name, registration number, gender, course, department, e-mail, father's name, mobile number and address are collected and the collected information is stored in the database.

Android Module

This module can be used for receiving text messages from students about their leave.

DATA FLOW

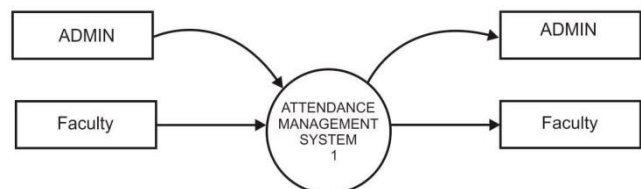


Figure 1. Data Flow Diagram

BLOCK DIAGRAM OF PROPOSED SYSTEM

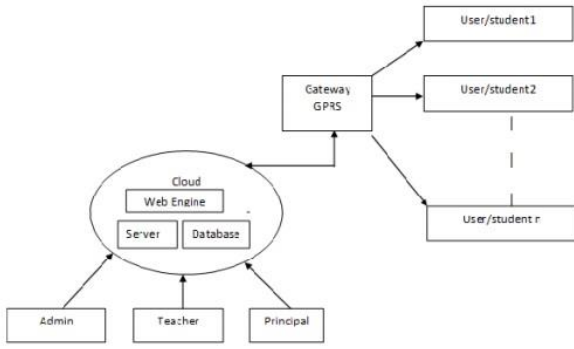


Figure 2. Block Diagram

With the proposed system shown in Figure 1 teacher can take attendance of student with own mobile and upload that record on web server. On the server side, percentage attendance will be automatically calculated and report will be generated accordingly. In the SMS notification module, SMS will be sent to parents or students. In E-learning module notes, time tables can also be broadcast to the student.

RESEARCH ELABORATIONS

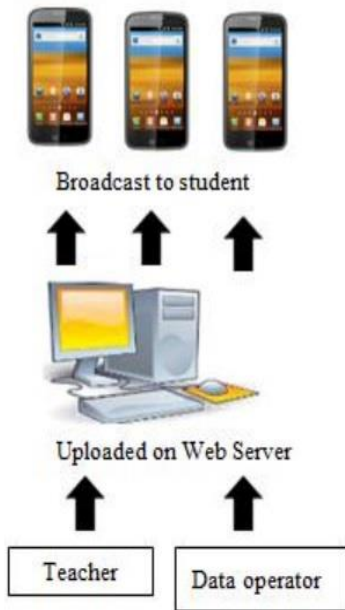


Figure 3. System Design and Development

Teacher or operator can upload the data on the web server. The data which is uploaded is broadcasted to student’s smartphone through GPRS.

IV. RESULTS

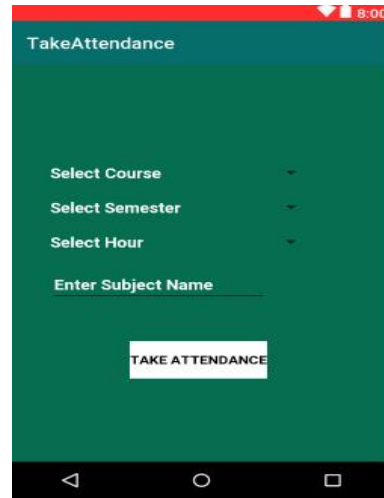


Figure 4

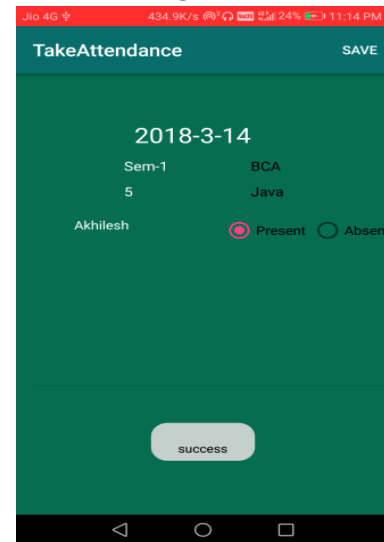


Figure 5

V. CONCLUSION

This work is to access the details about the student information and generate reports. The project “Android Based Attendance Maintenance System” is a collection of static and dynamic pages. This project offers user to enter the data through simple and interactive forms. This is very helpful for the students and staff members to keep and maintain the information about students easily. Further this work can be expanded to store the internal marks, semester marks and placement activities.

VI. REFERENCES

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