SMART PROCTOR SYSTEM

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ABSTRACT

Smart Proctor is an android based application. Proctor is a faculty of the college who is responsible to monitor the performances of the students. Proctor generates reports of the performances and informs to the parents about it. Proctor has to work on pen-paper system manually for this purpose. This application reduces the paperwork by taking attendance of students via application. This applicationcan be used by staff, parents and students. Staff can take attendance as well as send the attendance to parents. This application sends notifications about attendance details directly on parent's phone using SMS. This approach reduces time as well as cost.

Keywords: Andriod, Attendance, Mobiltiy, Proctor.

I. INTRODUCTION

Most of the colleges follow physical attendance entry (paper based) now a days. But in this system, we are not supposed to maintain pen, paper based participation. Using this idea, we have proposed a participation checking framework built in the idea of web administrations which is executed as an Android based application that interconnects with the database that resides on a remote server. The Smart Proctor application will associate with the database using internet.

Our developed project is efficient and user friendly and very easy to use Android application for taking attendance. This application will be introduced on the client's smart phone. It proposes to convey a client interface to enter the attendance of the students.

II.RELATED WORKS

2.1 Current System

In the current system used in colleges all process is carried out on paper. The whole session is put away in record in an Excel Sheet and at the end of this process the reports are produced. Taking manual attendance and then filling it in an Excel Sheet and then generating report consumes a lot of time. At the end of session the students who don't have the desired attendance will get a notice.

2.2 Drawbacks of Related Works

- Difficult to understand
- Errors in report generation

- Manual process
- Lots of paperwork
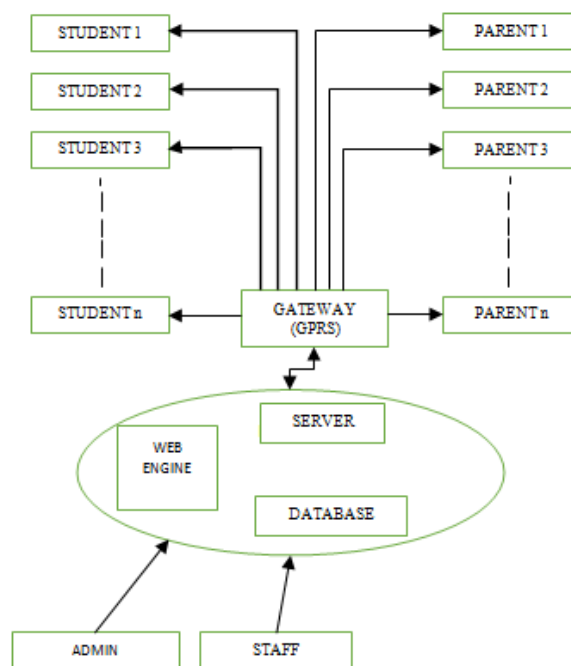- Time consuming.
- Less Security

III.PROPOSED WORK

Figure 1: - Architecture of Smart Proctor System

3.1 Proposed Architecture Overview

Easy to use: The proposed framework is easy to use on the grounds that the access and storage of information will be quick and records will be kept professionally sheltered. Besides the GUI is given in the proposed framework, which conveys client to manage the framework effortlessly. Reports are effortlessly produced: Reports can be just produced in the proposed framework, so administrator can deliver the report according to the prerequisite (month to month) or in the mid of the session. Administration can give the notice to the worker so clients get to be consistent.

PC administrator control: System administrator can regulate the system so that there will be there so no possibility of false entries, errors in registration, etc.

Very less paper work: The proposed application obliges low paper work. All the information is nourished into the framework promptly and reports can be produced through PCs. Moreover exertion gets to be simple on the grounds that there is no need to keep the information as papers.

IV. MODULES USAGE

Smart Proctor is an application designed for the staffs, students and their respective parents to login to check attendance and to send/receive marks in the college premises using mobile phone.

Emulator: Emulator is used by using the software eclipse which is used to run android emulator in system so that the application which is being created can be tested then and there.

Advantages of Emulator: All applications can be tested using the emulator So that the application will work in any version of android device. Emulators available as a free software. By using the emulator we can perform UI and performance testing. The version of emulator involved in this project is Eclipse v22.0.1.

4.1 Types of Modules

4.1.1. Admin Module:

The principle motivation behind the Administrator module is to maintain security of data. This module is made only for Management, where mobile phones are used to take attendance. Each staff registers his/her user name and password which gets stored in the admin database. If the user name and password does not match they will not be able to log in to take attendance.

4.1.2. Staff Module:

Staff can register with name, username, password and mobile number. Also the staff can send the attendance of the student to the respective parents. Staff can take student wise attendance, class wise attendance and overall attendance of the student using the SMS service.

4.1.3. Student Module

Students can view their attendance in this module. After the student logs in with valid username and password, the student can enter the time period, which he wants to see his attendance. Student can also change the password using this module.

4.1.4. Parent Module:

Parents can view their student's in this module. After the parent logs in with valid username and password, the parent can enter the time period, which he wants to see his/her student's attendance. Parent can change the account password in this module.

4.1.5. Website Module:

This model is designed using PHP MyAdmin. The capacity of this module is to produce the list of staff who all are registered then the admin can download the list from the php database. Admin can also generate the weekly/monthly attendance report list from the database. Also admin can insert or delete any data if necessary. This is necessary if any student or staff person no longer belongs to the premises.

V. EXECUTION

Execution is the stage of the project is that the working system is turned into theoretical process. So it is considered to be effective and useful to the user. The existing system is studied and planned carefully which involves the implementation stage. This research is not platform independent i.e: this application runs only in android smart phones.

VI. POINTS OF INTEREST

After installation of the application in android smart phone attendance calculation can be done within fraction of seconds by the admin. It improves the accuracy of calculation. Paperwork will be very less. Manual attendance calculation will not be required.

VII. ALGORITHM USED

Algorithm for Login:

Input:

$U= \{U_1, U2 \dots ,U_i\}$ //No of Usernames Registered

$P= \{P_1, P_2 \dots ,Pi\}$ //No of Respective Passwords

u //username entered

p //password entered

Output:

User Activity Page

AlgoLogin:

{

u=username entered by user

p=password entered by user

for each i check

if $u \in U_i$ and $p \in P_i$

then proceed to user account;

else

print message login failed;

for loop end;

u=null

p=null

}

VIII. EXPLAINATION OF ALGORITHM

This algorithm explains the connectivity between Http server client and application server. This connection takes place in step by step process

Step-1. User has to enter his or her username and password.

Step-2. Once the details are entered user has to hit the login button.

Step-3. The user details will be checked from the server side.

Step-4. Once the detail calls true, the intent will pass from one activity to another.

Step-5. Username and password is not correct the user is invalid.

IX. FUTURE SCOPE

According to college level the staff will get benefits by using this application. As the staff canlogin by using the application in college, they can take attendance. The attendance of the students will be submitted to database. It informs whether the students are present in the college premises or not. Staff doesn't have to manually register in attendance log book. Online fees payment, online admission, online assignments, online tests and online classroom can also be implemented in this project.

X.CONCLUSIONS

An Android based portable application Smart Proctor is created. The application offers user friendly activity, less time consumption. It can also be used for taking attendance inside the college premises via smart phones, time will be saved, and a lot of paperwork will be reduced by using this application.

REFERENCES

Books:-

[1] PHP and MySQL Web Development (4th Edition) By Luke Welling, Laura Thompson

[2] Android Design Patterns: Interaction Design   Solution for Developers By Greg Nudelman