

# Digital Mobile Attendance System

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*Abstract*— Our project is to developed an android application where, the attendance of students are recorded by android mobile phones. This application is useful for teachers or staff's to take attendance via android phones and send the information about student like he/ She is present or absent in lectures or not, to HOD or any higher authority is easy. Means that all records of students is maintained by android phones. As we know most of or colleges schools are used register books to Maintain records of students, but in that system take too much time to generate the record after that update the record, after that do calculation manually this is very tedious to do. So instead of doing that much things and doing work manually they can use there android phone to do same work in short time and this will help to make our country Digital Country.

**Key words:** Attendance, Educational, Admin, Information, Database, Web Server

## I. INTRODUCTION

As we know that the attendance system are going in traditional way, all system take attendance through register books. And maintaining that book so carefully. After that end of semester/Year all lecturers or teachers have more workload to calculate all students attendance ,calculate who student is present who is absent after that calculate average of every student , This is very tedious job and take too much time to do all calculation. Suppose in case if any teacher or lecturer loss his registration book then he have to be face many difficulties in his profession. Now consider if all system are using android application of attendance system and taking the attendance through there android mobile phones , then there is no chance of loss of registration book, There is no chance of doing calculation manually , all calculation like taking attendance through android application and after that calculate the average of student is so easy. And if any student not doing his lectures or practical's then one message is generated for his parents like your child /Daughter not present in this lecture on that time and on that day, and this message is send through authorized person only and when this message is need to be sent that is also decided by him. So parents are also involved in that scenario , this message is generated automatically through this application only have to select those students who are not present in lecture and practical's and then send that message .

And main thing sometime fake data is inserted in registration book that is really not authorized work for do. In order to reduce all these problems, a smart android application is generated to increase its Security as well as its efficiency by sending all information of students to the authorized admin panel server which is based on web, and this admin panel is link with the android application. It consist of three modules such as Admin login, HOD (Head of Department) login and Teacher login. Admin login has all authorities like add and remove any student or teacher, see

the students attendance report, calculate average based on attendance, check the timetable, make changes in the database and so on. Teacher login have authority to see the report of student attendance, send it to admin as well as HOD, calculate the average of students based on attendance and use that calculation in final report or in mark sheet of students. HOD login has all that authorities which can admin login have except adding or removing students and teachers .And suppose any student are not present in lectures then HOD can have that authority to send message to his / She's parents by android application.

## II. DRAWBACKS OR CONS OF THE CURRENT EXISTING SYSTEM

- 1) Manually have to do all work and maintenance of data.
- 2) Searching of data suddenly by manually is very difficult.
- 3) Calculation of student attendance is not accurate all time.
- 4) Errors or losing of data that problems are occurred.
- 5) Portability.

## III. OBJECTIVES

This android attendance /Digital Mobile Attendance System is developed and design for the organizations or colleges to manage the attendance records through there mobile phones. When it is implement in organizations then the development system is make Digitalized, Authorized and Secured. Because the attendance record is securely store in web server as many years, and we can gathered easily that information whenever it necessary.

## IV. METHODOLOGY

This project is developed in Android Studio, with phpMyAdmin Xampp server. This project is divided into two phase, first phase is the requirement analysis to understand the need of system and some necessary modules like admin module, teacher module, HOD (Head Of Department) module. Admin panel is controlling all type of information like creation or deletion or updating in database, add or remove students or teachers by their id and name which is connected to android application. This admin panel is based on web server.

Side by side the android mobile application is totally use by teacher to get login and by choosing their authorized register class id and name they can see digital register book on their smart android mobiles and submit it by doing cross checking to the HOD, admin and thy also.

## V. MODULES DESCRIPTION

### A. Administrator Module

This module is used to login for administrator, it have whole rights to monitor and manage the entire project, through this

module any new information can be easily inserted, updated, deleted or view.

### B. Teacher Module

Teacher module is have authority to get the attendance of student via there android mobile phones. Where the attendance is taken by teacher by thre android phones and keep the record in the database and also the attendance is send to HOD and admin.

## VI. RESULTS AND DESCRIPTION

In the following figures first of all the Fig-1=showing the home page of the web based server architectural view through php and PhpMyAdmin, Fig-2=showing the admin login page, Fig-3=showing the new teacher registration page by the admin, Fig-4, 4.1=showing the new student registration page,

Fig-5=showing the Add subject page, Fig-6=showing the login page for the registered teachers only through mobile phone, Fig-7=showing the Semester selection page, Fig-8=showing Attendance list of student page, Fig-9=Showing the total present and absent students count.

### A. Web based server architectural view



Fig. 1: Home Page

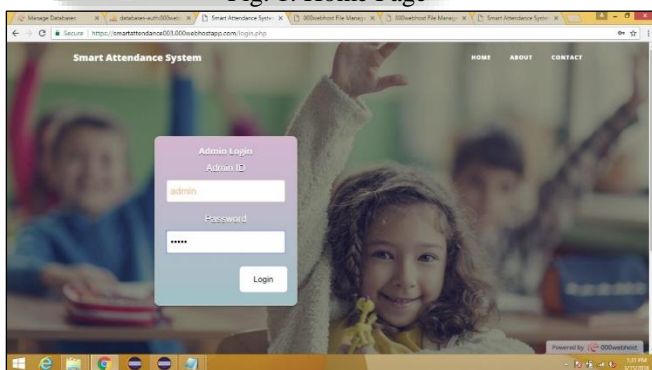


Fig. 2: Admin login page

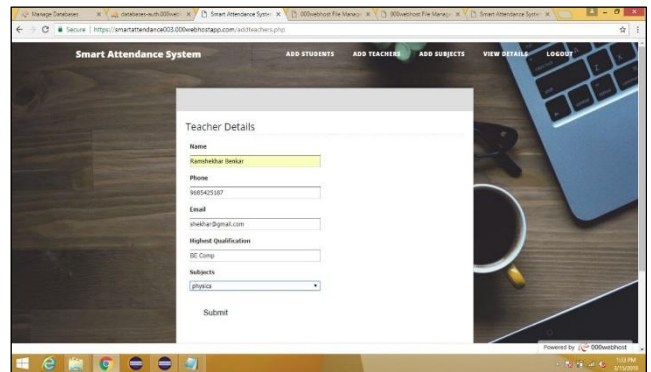


Fig. 3: New Teacher registration page

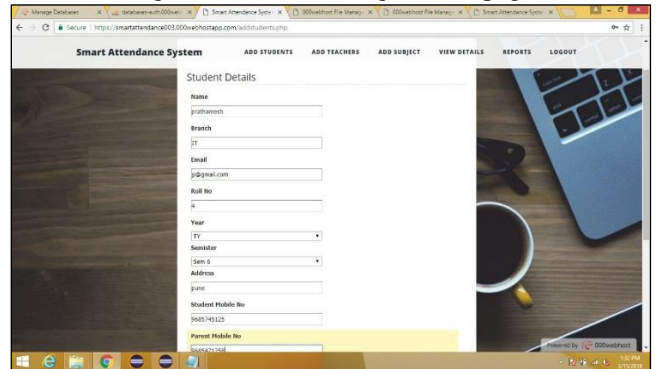


Fig. 4: New Student registration Page

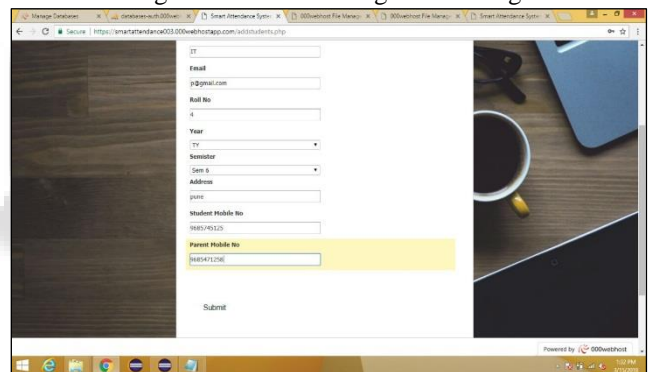


Fig. 4.1: New Student registration Page

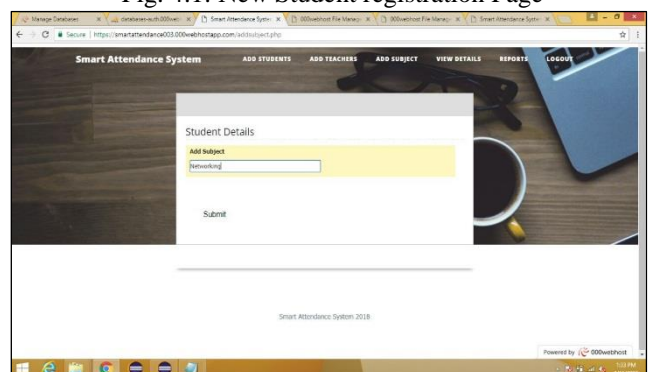


Fig. 5: Adding Subject Details

B. Mobile Application based architectural view

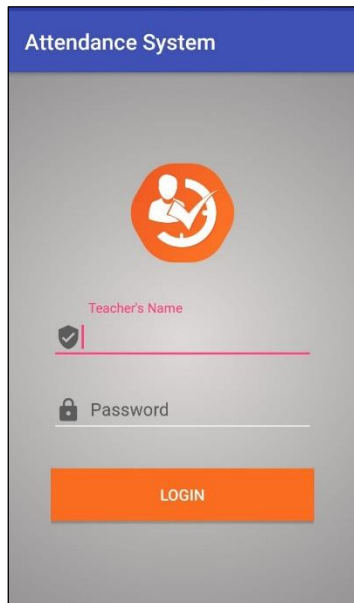


Fig. 6: Teacher login

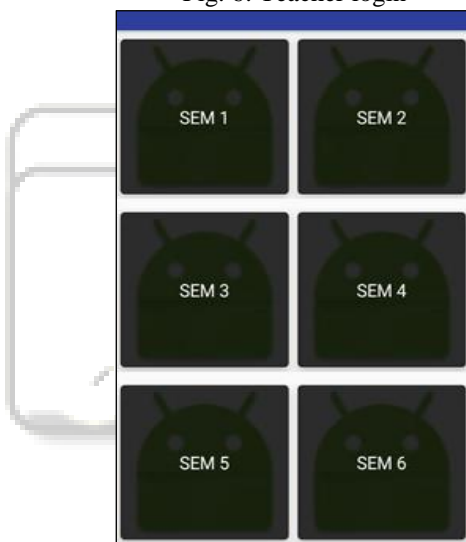


Fig. 7: Semester selection



Fig. 8: Taking attendance

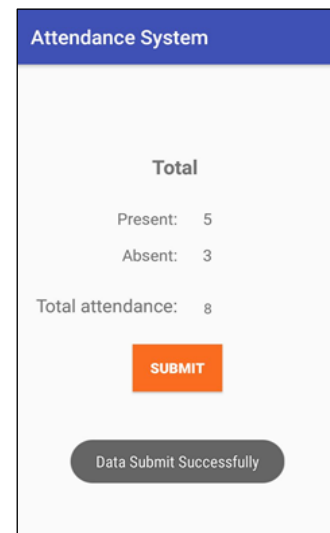


Fig. 9: Total attendance

VII. CONCLUSION

This project is to access the details and information about the student attendance and generate a final reports. This “Digital Attendance System.” is a collection of web based module and mobile application. This project allows to the user to enter the details through their respective registration forms. This is very helpful for the teachers and admin and HOD to keep and easily maintain the information about the students. In future this will be extend to store the college events, semester marks, internal marks and college placement activities of the students. So that the all that education work are done technically.

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